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Technical Document 573

CLIMATOLOGY OF MARINE ATMOSPHERIC REFRACTIVE EFFECTS

A compendium of the Integrated Refractive Effects Prediction System (IREPS) historical summaries

LCDR WL Patterson

20 December 1982

Interim document

interim document

Prepared for Naval Oceanographic Office Code 9200

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AN ACTIVITY OF THE NAVAL MATERIAL COMMAND

JM PATTON, CAPT, USN

HL BLOOD Technical Director

ADMINISTRATIVE INFORMATION

Work was performed under program element 63207N, project W0512 (NOSC 532-MP39) by a member of the Tropospheric Branch, NOSC Code 5325, for the Naval Oceanographic Office, Code 9200. This report was approved for publication 20 December 1982,

The staff of the Naval Oceanography Command Detachment, Asheville NC, is acknowledged for the tremendous effort of researching, compiling, and analyzing the 10 years of surface meteorological data—over 16 million observations—that went into the generation of the evaporation duct climatology used within the Integrated Refractive Effects Prediction System. The completion of this long and tedious project in record time significantly improved the quality of numerical environmental prediction aids used throughout the Department of Defense.

Released by JH Richter, Head Ocean and Atmospheric Sciences Division Under authority of JD Hightower, Head Environmental Sciences Department

CONVERSION TO SI METRIC

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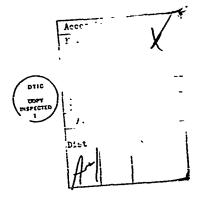
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PURPOSE

The anomalous propagation of electromagnetic energy through the atmosphere has been in evidence for many years in the form of false radar targets (ghosts), radar "holes," and extended detection/communication ranges. An operational commander aware of these anomalous propagation conditions may exploit them for an offensive or defensive military advantage. The Integrated Refractive Effects Prediction System (IREPS) developed at NOSC provides electromagnetic systems performance predictions based upon actual measured atmospheric conditions. In addition, IREPS provides a summary of propagation conditions based upon a worldwide refractive climatology data base stored within the program tapes. The purpose of this document is to provide a summary of climatological electromagnetic propagation conditions for ocean and coastal areas to fleet tacticians and operational commanders who may not have access to IREPS via the Hewlett-Packard 9845 desktop commuter.

BACKGROUND

REFRACTION AND DUCTING

Refraction is defined as the bending of an energy wave as it passes obliquely from one medium into another in which the wave velocity is different. Varying moisture content and temperature distribution provide the multimedia necessary for refraction of electromagnetic energy in the atmosphere. The degree of refraction is determined by the refractivity (N), which can be expressed as a function of atmospheric pressure, temperature, and moisture by the relation

$$N = \frac{77.6P}{T} + \frac{3.73 \times 10^5 e}{T^2} . \tag{1}$$

where P is atmospheric pressure, in millibars; T is atmospheric temperature, in kelvins; and e is atmospheric water vapor pressure, in millibars.

For a "well mixed" atmosphere, both temperature and moisture content decrease with altitude such that electromagnetic energy propagating horizontally to the earth's surface will refract downward but with a curvature less than that of the earth's. (This is termed standard refraction.) If the atmospheric moisture and temperature distributions are anomalous, however, propagating energy may refract upward (subrefraction), more downward than normal (superrefraction), or downward with a curvature that exceeds that ex the earth's surface (trapping). In trapping, the electromagnetic energy is concentrated in a channel, or "duct," that allows the energy to propagate over abnormally long surface distances Figure 1 demonstrates these standard and anomalous propagating conditions.

Figure 1. Standard and anomalous electromagnetic energy propagation paths.

The N-unit gradients necessary to produce these conditions within the atmosphere are cutlined in table 1.

•	N-unit Gradient						
	N/km	N/kft					
Trapping	<-157	<-48					
Superrefraction	-157 to -79	-48 to -24					
Standard refraction	-79 to 0	-24 to 0					
Subrefraction	>0	>0					

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Table 1. N-unit gradients necessary to produce standard and anomalous electromagnetic wave propagation within the atmosphere.

TYPES OF DUCTS

Three types of ducts within the atmosphere are of concern to naval electromagnetic systems: surface-based ducts created from an elevated refractive layer, elevated ducts, and evaporation ducts.

Surface-based ducts generally provide extended surface-to-surface or surface-to-air detection, ESM intercept, and communication ranges for all frequencies above 100 MHz, provided that both transmitter and receiver are near to cr within the duct.

Elevated ducts generally affect air-to-air surveillance, communication, and weapon guidance systems, producing extended ranges for systems operating within the duct. But some areas outside the duct are not illuminated. They produce blind spots or "holes" where radar detection or communication is not possible.

Evaporation ducts are very shallow surface ducts. They provide extended surfaceto-surface ranges as described above, generally for systems that operate at frequencies above 3 GHz.

FURTHER DISCUSSION

For additional considerations and a detailed discussion of the IREPS program and refraction of electromagnetic energy in the atmosphere, refer to NOSC Technical Document 481 (ref. 1).

FORMAT AND DATA DESCRIPTION

The historical data base contained within the document is derived from two sources. The first is a selective abstract (comprised of coastal, island, and fixed ship stations) of a worldwide data base created from a radiosonde data analysis project undertaken by GTE Sylvania, Inc (ref 2). Worldwide radiosonde sounding reports from 1966 to 1969, 1973, and 1974 were verified for accuracy and acceptability. From these radiosonde sounding reports, vertical profiles of N were created and data related to tropospheric ducts or super-refractive layers were extracted. The second source of data (ref 3) is from a project undertaken by the Navai Oceanography Command Detachment, Asheville, NC, at the request of NOS.. Ship surface observations encompassing the years 1970 to 1979 were compiled, evatuated for accuracy, and analyzed. Then the occurrence of evaporation ducts (in 10-m intervals) and an average evaporation duct height were calculated for 216 Marsden squares covering the northern hemisphere ocean and southern hemisphere coastal areas. Data presented in the document appear in the format of the IREPS product entitled "Historica? Propagation Conditions Summary," a typical page of which is shown as table?

The Historical Propagation Conditions Summary (pages III-1 through III-48%) conserts of five tabular parts per page. Each part is divided into yearly and seasonal categories Each category is further subdivided into day, night, and a combination of day and night times.

The first part on each page is entitled "Percent Accurrence of Enhanced Surface-to-Surface Radar/ESM/COM Ranges." The statistics display, as a function of system frequency and season of year, the percentage of time that surface propagation will exceed ranges predicted under normal conditions

Part two, entitled "Surface Based Duct Summary," provides, on a seasonal basis, the percent occurrence of a surface-based duct, the duct's average thickness, the average frequency of electromagnetic energy trapped within the duct, and the average refractive index gradient through the duct.

Part three, entitled "Elevated Duct Summay" provides the percent occurrence of an elevated duct, the average duct elevation and exactiness, the average frequency of electromagnetic energy trapped within the duct, and the average refractive index gradient through the duct.

^{2.} NOSC TD 481, IREPS Revision 2.0 User's Manual, by HV Hitney et al, September 1981.

Electronic Systems Group – Western Division, Radiosonde Data Analysis II: Five Years Data, GTE Sylvania Incorporated, Mountain View CA, 29 July 1977.

^{3.} Evaporation Duct Report 76118, Naval Oceanography Command Detachment, Asheville NC, June 1981.

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Table 2. Typical page of historical propagation conditions summary.

Part four, entitled "Evaporation Duct Histogram in Percent Occurrence," provides percent occurrence and average value of evaporation duct strength as a function of duct height and season of the year.

Part five, entitled "General Meteorology Summary," provides the percentage of simultaneous occurrence of ducts, the average station refractive index, the refractive index gradient through the layer, and the average surface wind speed for the Marsden square.

HOW TO LOCATE DATA FOR AREAS OR STATIONS OF INTEREST

Historical propagation conditions data for stations or areas of interest contained within this document can be obtained if one of the following identifiers is known: (1) the World Meteorological Organization (WMO) block and station number, (2) the country and station name, or (3) the location by latitude and longitude.

Enter the appropriate part of the Data Base Index with the known station or area identification to obtain a data page number. If the area or station is identified by its latitude and longitude, first identify its appropriate Marsden square number from figure 2. Then with the assigned Marsden square number, enter the index to obtain a data pagnumber.

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Figure 2. Wrild map of Marsden square numbers.

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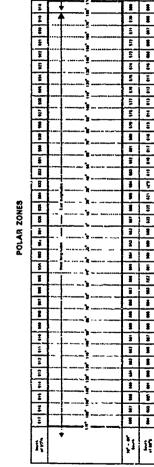


Figure 2. World man of Marsden square numbers (cont).

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DATA BASE INDEX ENVIRONMENTAL DATA BY MARSDEN SQUARE NUMBER

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884		HO RADIOSONDE STATION	IN THIS MARSDEN SOUARE	III-4
995		NO RADIOSONDE STATION	IN THIS MARSDEN SQUARE	111-5
906	81485	CAYENNE/ROCHAMBEAU	FRENCH GUIANA	111-6
096	81403	KOURON	FRENCH GUIANA	III-7
908	78886	HOWARD AIR FORCE BASE	CANAL ZONE	111-8
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010		NO RESTOSORDE STATION	IN IN:5 MAPSDEN SOURKE	171-10
011 812		NO KADIOSONDE SINIION	IN THIS HARSDEN SOURKE	111-11
913		NO REPROSURE STATION	IN THIS MARSHER SQUAKE	111-12
814		NO RADIOSUME STATION	IN THIS MODEREN CONDE	111-13
015		NO REPLOSORSE STATION	IN THIS MADEREN SAMRE	111-14
916		NA PARIASANTE STATION	IN THIS MARSBEN SOMAPE	111-15
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021	91334	TRUK	CAROLINE ISLANDS	111-23
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928		NO PARTICIONE STATION	IN THIS HAPSTEN SOURCE	111-34
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829	43371	TRIVENDRON	111010	111-38
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041		NO RADIOSONDE STATION	IN THIS MARSDEN SQUAPE	111-47
042	78954	SERNELL AIRPORT	BARBADOS	111-48
	78967	CHRGURENINS	IRINIDAD	111-49
043	78861	TOTAL PROPERTY AND AND AND AND AND AND AND AND AND AND	HNILGUR, RFITISH IS.	111-50
843 843	78986 78866	THE TONG OFFICER	CORMUNU OT MODITH	111-51
843	19200	OF THUM HILLOK!	21. MUKITH	111-25

ENVIRONMENTAL DATA BY MARSDEN SQUARE NUMBER

			TRINIDAD + TOBAGO GUADELUPE ISLAND PUERTO RICO DOMINICAN REPUBLIC CUBA JAMAICA GRAND CAYMAN, CAYMAN IS. COLOMBIA SUAN ISLAND MEXICO THIS MARSDEN SQUARE MEXICO THIS MARSDEN SQUARE THIS MARSDEN SQUARE THIS MARSDEN SQUARE U.S., HAWAII NORTH PACIFIC OCEAN THIS MARSDEN SQUARE THIS MARSDEN SQUARE THIS MARSDEN SQUARE THIS MARSDEN SQUARE THIS MARSDEN SQUARE THIS MARSDEN SQUARE THIS MARSDEN SQUARE THIS MARSDEN SQUARE THIS MARSDEN SQUARE PHILIPPINES CHINA THAILAND VIET NAM INDIA INDIA INDIA INDIA INDIA INDIA INDIA THIS MARSDEN SQUARE ARABIR-RED SEA SUDAN MAURITANIA CANARY ISLANDS THIS MARSDEN SQUARE THIS MARS	
SQUARE	BK/STA	CITY	COUNTRY	PAGE
NUMBER	NUMBER			NUMPER
043	78979	PIARCO/PORT OF SPAIN	TRINIDAD + TOBAGO	111-53
843	78897	RRIZET	GUADELUPE ISLAND	111-54
943	78526	SAN JUAN/INT.	PUERTO RICO	111-55
843	78486	SANTO DOMINGO	DOMINICAN REPUBLIC	111-5€
044	78367	GUANTRHANO	CUBR	III - 57
844	78397	KINGSTON/PALISADOES	JANAICA	111-58
845	78384	ROBERTS FIELD	GRAND CAYMAN, CAYMAN IS.	111-59
045	80001	SAN ANDRES	COLOMBIA	111-60
045	78501	SHAN ISLAND	SWAN ISLAND	111-61
946	76692	VERACRU2	MEXICO	111-62
847		NO RADIOSONDE STATION IN	THIS MARSDEN SQUARE	111-63
048	76723	ISLAND SOCORRA	MEXICO	III-64
849		NO RADIOSONDE STATION IN	THIS MARSDEN SQUARE	111-65
658		HO RADIOSONDE STATION IN	THIS MARSDEN SQUARE	111-66
051		NO RADIOSONDE STATION IN	THIS MARSDEN SQUARE	111-67
952	91285	HILO/GEN.LYMAN	U.S., HAWAII	111-68
053	91275	JOHNSTON ISLAND	NORTH PACIFIC OCEAN	111-69
854		NO RADIOSONDE STATION IN	THIS MARSDEN SQUARE	111-79
855		NO RADIOSONDE STATION IN	THIS MARSDEN SQUARE	III-71
856	91250	ENTHETOK ATOLL	MARSHALL IS.	111-72
056	91245	WAKE ISLAND	NORTH PRCIFIC OCEAN	111-73
057	*	NO RADIOSONDE STATION IN	THIS MARSDEN SOURRE	111-74
058	91217	GUAM	TAGUAC. MARIANA IS.	111-75
859		NO RADIOSONDE STATION IN	THIS MARSDEN SQUARE	111-76
858	98223	LAGAG	PHILIPPINES	111-77
969	98646	MACTAN INTL	PHILIPPINES	111-78
061	59981	HS1 SHR CHOU/PARACEL IS.	CHINA	111-75
062	48455	BANGKOK	THAILAND	111-80
862	48855	DR-NANG/TOURANE (SD)	VIET NAK	111-81
963	43333	PORT BLAIR	INDIA	111-82
064	43279	HADRAS MINAMBAKKAM	INDIA	111-83
064	43149	VISHAKHAPATNAH	INDIA	111-84
965	43003	ROMBAY - SANTACRUZ	INDIA	111-85
965	+3192	GOA/PANJIM	INDIA	111-86
866		NO RADIOSOMDE STATION IN	THIS MARSDEN SOMARE	111-87
067		NO PADIOSONDE STATION IN	THIS MARSDEN SQUARE	111-88
068	40597	ADEN, KHORMAKSAR	APARIE-RED SEA	111-89
069	62641	PORT SUDAN	SUDAN	111-96
074	61415	PORT-ELIENNE	MAURITANIA	111-91
974	60020	SANTA CPU? DE TENEPIFE	CANARY ISI ANDS	111-92
375	*****	NO REPIOSONDE STELLON IN	THIS HARSDEN SOURCE	111-93
976		NO RADIOSONDE STATION IN	THIS HARSDEN SQUARE	111-94
677		NO PADIOSONDE STATION IN	THIS MARSDEN SQUARE	111-95
978		NO RADIOSONDE STATION IN	THIS MARSDEN SOMERE	111-96
679		NO PADIOSCHOE STATION IN	THIS MARSBEN SQUARE	111-97
686	78076	COFFIN HILLS	BRHANAS, FLEUTHERA 13	111-98
929	78063	GOLD BOCK CREEK	RAHAMAS, CRANTI RHHAMA 19	111-99
989	78118	THRES ISLAND (ANY AFR)	RAHAMAS	111-130
021	72220	APALACHICOLA	ILS. FICPING	111-101
881	72232	ROOTHVILLE	U.S., LOUISIANA	111-162
081	74794	CAPE KENNEDY	II S FINDINA	111-102
081	78325	CASA RI ANCA	CHRA	111-103
001	. 0020	citori permen	-000	111-104

ENVIRONMENTAL DATA BY MARSDEN SQUARE NUMBER

SQUARE	EK/STA	CITY	COUNTRY U.S., FLORIDA U.S., FLORIDA U.S., TEXAS MEXICO MEXICO S HARSDEN SOUARE S HARSDEN SOUARE S HARSDEN SOUARE U.S., HANAII S MARSDEN SOUARE U.S., HANAII S MARSDEN SOUARE NORTH PACIFIC OCEAN S HARSDEN SOUARE NORTH PACIFIC OCEAN HORTH PACIFIC OCEAN HORTH PACIFIC OCEAN HORTH PACIFIC OCEAN PHILIPPINE SEA JAPAN	PAGE
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881	72201	KEY WEST/INT.	U.S., FLORIDA	111-105
981	72202	MIAMI/INT.	U.S., FLORIDA	111-196
981	72211	TAMPA/INT.	U.S., FLORIDA	111-107
082	72250	BROWNSVILLE/R.G.V.INT.	U.S., TEXAS	111-108
683	76458	MAZATLAN	MEXICO	:11-109
884	76151	ISLA GUADALUPE	MEXICO	111-110
985		NO RADIOSONDE STATIGH IN THE	S MARSDEN SOUARE	III-111
986		NG RADIOSONDE STATION IN THE	S MARSDEN SQUARE	III-112
987		NO RADIOSONDE STATION IN THE	S MARSDEN SQUARE	111-113
880	31165	LIHUE	U.S., HANAII	III-114
689		NO RADIOSONDE STATION IN THI	S MARSDEN SOURRE	III-115
090	91066	MIDWAY ISLAND	NORTH PACIFIC OCEAN	111-116
891		NO RADIOSONDE STATION IN THE	S MARSDEN SQUARE	111-117
092		NO RADIOSONDE STATION IN THE	S MARSDEN SQUARE	111-118
993	91131	MARCUS ISLAND	NORTH PACIFIC OCEAN	111-119
094	91030	CHICHI JIMA ISLAHD	NORTH PACIFIC OCEAN	III-120
094	91115	INO JIMA AIRFIELD	NORTH PACIFIC OCEAN	111-121
095	4YT	FIXED SHIP	PHILIPPINE SEA	111-122
895	47945	MINAMIDAITOJINA	JAPAN	111-123
696	47918	ISHIGAKIJIMA	JAPAN	111-124
896	47931	KADENA RB	JAPAK	111-125
096	47936	HAHA/KAGEMIZU	JAPAN	111-126
896	47909	NAZE	JAPAN	111-127
096	58666	TA CHEN TAO	CHINA	111-129
096	46692	TAIPEI	CHINA (TAIWAN)	111-129
896	46697	TROYURN	CHINA (TAINAN)	111-130
ა96	46747	TUNG KONS	CHINA (TAIWAN)	111-131
097	59758	HAIKON	CHINA	111-132
897	45004	KINGS PARK	HONG KONG	111-133
897	46734	HAKUNG	CHINA (TAIWAN)	111-134
697	46810	PRATAS IS.	CHIHA (TRIWAH)	111-135
097	59134	SHAMEN	CHINA	III-136
097	59316	SHANTGU	CHINA	111-137
097	59663	YANGCHIANG	CHINA	111-138
169	42971	BHUBAKESHAR	INDIA	111-139
182	41780	KARACHI AIRPORT	PAKISTAN	111-143
193	40427	BAHRAIN/HUHARPAQ	PERSIAN GULF	III-141
103	40564	MASIPAH	ARABIAN PEHINSULA	111-142
194	40372	KUWAIT INTERNATIONAL AIRP	KURAIT	111-143
195	40477	JEDDAH	SAUDI ARABIA	iiI-144
109	60250	AGADIR INEZGANE	MORGCCO	111-145
109	66155	CASABLANCA	MOROCCO	111-146
109	60119	KENITRA II	HOROCCO	III-147
109	68536	LISBOA/PORTELA	PORTUGAL	111-148
109	08495	NORTH FRONT	GIBRALTAR	111-149
118	08521	FUNCHAL (MADEIRA)	PORTUGAL	111-150
111	88589	LAJES (AZ9RES)	PORTUGAL	111-151
112		NO RADIOSONDE STATION IN THI	S HARSDEN SQUARE	111-152
113	4YE	FIXED SHIP	NORTH ATLANTIC OCEAN	111-153
114		NO RADIOSONDE STATION IN THE	S MARSDEN SQUARE	111-154
115	78616	KINDLEY FIELD AFB	BERNUDA	III-155
116	72304	CAPE HATTERAS	U.S., HORTH CARCLINA	111-156

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	116	72402	HALLOPS ISLAND		U.S. VIRGINIA	111-158
- 1	117	72268	CHARLESTON/MUN.		U.S., SOUTH CAROLINA	111-159
;	117	72221	EGLIN BER		U.S., FLORIDA	111-160
•	17	72286	JACKSONVILLE/IMESON		U.S. FLORIDA	111-161
1	128	74704	EL MONTE ENSU		U.S., CALIFORNIA	111-162
•	20	72295	LOS ANGELES/INT.		U.S., CALIFORNIA	111-163
1	120	72391	POINT MUGU/NAS		U.S., CALIFORNIA	111-164
3	128	72298	SAN DIEGO/LINDBERG		U.S., CALIFORNIA	111-165
1	120	72291	SAN NICOLAS IS./NF		U.S., CALIFORNIA	111-166
i	121	72493	OAKLAND/UAU		U.S., CALIFORNIA	111-167
1	121	72393	VANDEHBERG AFE		U.S., CALIFORNIA	III-168
1	122		NO RADIOSONDE STATION	IN	THIS MARSDEN SQUARE	111-169
1	123	4YN	FIXED SHIP		HORTH PACIFIC OCEAN	111-170
1	124		NO RADIOSONDE STATION	IN	THIS MARSDEN SQUARE	III-171
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1	126		NO RADICSONDE STATION	Ħ	THIS MARSDEN SQUARE	111-173
1	128	477	FIXED SHIP		NORTH PRCIFIC OCEAN	111-174
1	129		NO RADIOSONDE STATION	IN	THIS MARSDEN SQUARE	111-175
1	138	47582	AKITA		JAPAN	111-176
1	138	47598	SENDAI		JAPAN	111-177
1	131	47807	FUKUCKA		JAPAN	111-178
1	131	47678	HACHIJOJIMA		JAPAH	111-179
1	131	47681	HAMAMATSU AB		JAPAN	111-188
1	131	47827	KAGOSHIMA		JAPAN	111-181
1	131	47778	SHIONOMISAKI		JAPAH	III-182
1	131	47881	TOKUSHIMA AB		JAFAN	111-183
1	131	47600	HAJIMA		JAPAN	111-184
1	13:	47744	YONAGO		Ј АРАН	111-185
3	132	47*87	MOSULPO AB		KOREA	111-186
1	132	47138	PGHANG		KOREA	111-187
1	132	546€2	TALIEN		CHINA	III-188
1	132	54857	TSINGTAO		CHINA	111-169
1	139	38750	GASAN-KUL I		U.S.S.R.	III-190
1	141	40179	BET DAGAN		ISRAEL	111-191
1	141	40100	REYPOUTH (REROPORT)		LEBANON	III-192
1	141	17603	EPISKOPI		CYPRUS	111-193
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1	142	16716	ATHINAI/HELLINIKON		GREECE	111-195
1	142	62953	PENGHAZI/BENINA		LIRYA	111-196
1	142	16754	HERAKLION CRETE		GREECE	111-197
1	142	17220	IZHIR		TURKEY	111-198
1	142	62386	MERSA MATRUH		UNITED ARAB REPUBLIC	111-199
1	142	62062	TOBRUK		LIBYA	111-200
1	143	16420	HESSINA		ITALY	111-201
1	143	16596	QRENDI		HALTA	111-202
1	143	68715	TUHIS CARTHAGE		TUPISIA	111-203
1	143	62011	WHEELUS FIELD		LIBYA	111-204
1	144	68398	ALGER/DAR EL BEIDA		ALGERIA	111-205
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0011005	THE COTO	ATTU	COUNTRY	DOCC
SQUARE NUMBER	HICAR	CITT	COUNTRY	FRUE
NUMBER	HUNBER	1.0. 00011110	CDATH	NJABER
145	98991	LH CUKUNH	STRIK	111-209
146	416	PIXEN SHIP	HUKIH HILHHIIL ULEHN	111-210
147		NO REPLESONDE STRITON IN	THIS MAKSDEN SUUNKE	1:1-211
148		NO RHDIOSONDE STHITON IN	THIS MAKSDEN SUDAKE	111-212
149	4YD	FIXED SHIP	NORTH HILANTIC OCERN	111-213
150	72897	REGENTIH	CHNHUH, NEWFOUNULAND	111-214
158	72861	ST JUHNS/TUPBHY	CHNHUH	111-215
159	72815	STEPHENVILLE	CANADA, NEWFOUNDLAND	111-216
151	72600	SABLE ISLAND	CANADA, N.S.	111-217
151	74399	SHELBURNE	CANADA	111-218
152	72528	BUFFALO/GREATER BUFFALO	U.S., HEN YORK	III-219
152	74494	CHATHAM	U.S., MASSACHUSETTS	111-220
152	72586	HANTUCKET/MEMORIAL	U.S., MASSACHUSETTS	111-221
152	74486	NEW YOPK/JFK INT.	U.S., NEW YOPK	111-222
152	72606	PORTLAND/MUN.	U.S., MAINE	111-223
153	72534	CHICAGO-HIDWAY	U.S., ILLINOIS	111-224
153	72734	SAULT STE. MARIE	U.S., HICHIGAN	111-225
157	72793	SERTTLE/TACOMA INTL	U.S., WASHINGTON	111-226
157	72798	TATOOSH ISLAND	U.S., WASHINGTON	111-227
158		NO RADIOSONDE STATION IN	THIS MARSDEN SQUARE	111-228
159		HO RADIOSONDE STATION IN	THIS MARSDEN SQUARE	111-229
160		NO RADIOSONDE STATION IN	THIS MARSDEN SQUARE	111-238
161		NO RADIOSONDE STATION IN	THIS MARSDEN SQUARE	111-231
162		NO RADIOSONDE STATION IN	THIS MARSDEN SQUARE	111-232
163		NO RADIOSONDE STATION IN	THIS MARSDEN SQUARE	111-233
164		NO RADIOSONDE STATION IN	THIS MARSDEN SQUARE	111-234
165	32186	URUP	U.\$.\$.R.	111-235
166	32165	JUZNO-KURILSK	U.S.S.R.	111-236
166	32158	JUZNO-SAHALINSK	U.S.S.R.	111-237
166	47589	MISAWA AB	JAPAN	111-238
166	32099	N. TERPENIYA	U.S.S.R.	111-239
166	47420	NEMURO	JAPAN	111-249
166	31770	SOVETSKAYA GAUAN	U.S.S.R.	111-241
166	47401	HAKKAHAI	JAPAN	111-242
167	31909	TERNEJ	U.S.S.R.	111-243
167	31960	VLRDIVOSTOK	U.S.S.R.	111-244
175	37860	BIAN/BAKU	U.S.S.R.	111-245
175	35700	GURFY	U.S.S.R.	111-246
175	38597	KRASHOVODSK	U.S.S.R.	111-247
176	34888	ASTRAHAN	U.S.S.R.	111-248
176	37268	RARUSERI (SUHUHI)	H.S.S.R.	111-249
176	37484	RRTHMI	II. S. S. R.	111-253
177	33837	ODESSA	II. S. S. P.	111-251
177	34731	POSTCY-MA-DOMI	11. S. S. R.	111-252
127	17030	CARCIN	COUNTRY SPAIN NORTH ATLANTIC OCEAN THIS MARSDEN SOUARE THIS MARSDEN SOUARE NORTH ATLANTIC OCEAN CANADA, NEHFOUNDLAND CANADA, NEHFOUNDLAND CANADA, N.S. CANADA U.S., HEW YORK U.S., HEW YORK U.S., HEW YORK U.S., HEW YORK U.S., HASSACHUSETTS U.S., HASSACHUSETTS U.S., HEW YORK U.S., HASHOLISTIS U.S., R.	111-252
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177	37010	THAPSE	11. S S P	771-254
179	12750	CONCIDITO C	DIIMAUTA	111-233
170	17052	ISTANDIO ZGOZYERE	THOSEV	111-200
170	16623	THE COOL BUILT AND PO	CDEECE	111-431
170	16024	POTUNICI POTUNICI	ITOLV	111-238
177	16349	BOND STUNICING	11010	111-209
179	10545	KONNYTIONICINO	IINLI	111-268

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181	03170	SHANHELL	UNITED KINGDOM	111-266
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183	4YJ	FIXED SHIP	NORTH ATLANTIC OCEAN	111-269
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187	72811	SEPT-ILES	CANADA, QUEBEC	111-274
188	72907	INOUCDJOUAC	CANADA, QUEBEC	111-275
189	72836	MOOSONEE	CANADA, ONTARIO	111-276
198	72913	CHURCHILL	CANADA, MANITOBA	111-277
193	74189	PORT HARDY	CANADA, BRITISH CO.	111-278
194	70398	ANNETTE ISLAND	U.S., ALASKA	111-279
194	70361	YAKUTAT	U.S., ALASKA	111-280
195	4YP	FIXED SHIP	NORTH PACIFIC OCEAN	111-281
196	70326	KING SALMON	U.S., ALASKA	111-282
196	76350	KODIAK/HAS	U.S., ALASKA	111-283
197	70316	COLD BAY	U.S., ALASKA	111-284
198	70454	ADAK	U.S., ALASKA	111-285
198	70308	ST. PAUL IS.	U.S., ALASKA	111-286
199	70414	SHEMYA	U.S., ALASKA	111-287
288	32618	OSTROY BERINGA	U.S.S.R.	111-288
201	32217	MYS VASILEYR	U.S.S.R.	111-289
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202	31988	OHOTSK	U.S.S.R.	111-293
203	31168	AJAN	U.S.S.R.	111-294
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214	26422	RIGA	U.S.S.R.	111-297
214	25038	TALLIN	U.S.S.R.	111-298
215	02984	BOTEBORG/TORSLANDA	SHEDEN	111-299
215	06181	KOBENHAVEN/GARDERHOJ	DENMARK	111-366
215	12105	KOSZA'.IN	POLAND	111-361
215	12120	LEBA	POLAND	111-302
215	02160	TINGSTADE	SHEDEN	111-303
216	03496	HEMSBY	UNITED KINGDOM	111-394
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216	01415	SINVANGER/SULH	никину	111-306
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217	82011	INUKSHAVN	DENNHRK	111-308
218		HU KHDIOSONDE STHILON IN THIS	S MAKSUEN SQUARE	111-309
219	41H	PIACU SHIP	MOKIN HILMNIIC OCEHN	111-318
219	01000	REPLANTE (SAN STRITTAL)	COFFU OUR	111-311
220	4436 6	CITY AJACCIO/CAHPO DEL ORO ABERPORTH CAMBERNE CRAMLEY LONG KESH SHANHELL STORNOHAY FIXED SHIP FIXED SHIP FIXED SHIP FIXED SHIP FIXED SHIP FORT CHIHO SEPT-ILES INDUCAJOUAC MOOSONEE CHURCHILL PORT HARDY ANNETTE ISLAND YAKUTAT FIXED SHIP KING SALHON KODIAK/HAS COLD BAY ADAK ST. PAUL IS. SHEMYA OSTROY BERINGA MYS VASILEYA NAGAEVO SOBOLEVO ONBOLEVO GRECHLAND	111-312	

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SQUARE	BK/STA	CITY NARSSARSSUAD EGEDESHINDE CORAL HARBOUR HALL BEACH CAMBRIDGE BRY COPPEPHINE KOTZEBUE HYS UZLEN HOME BUHTA PROVIDENIJA HYS SHIDTA ANADYR BUHTA UGOLNAJA KORF HYS KAMENNYJ ANDERNA LENINGRAD (TOHN) SORTOVALA LULER/KALLAX BODO SUNDSVALL/HARNOSAND FIXED SHIP ORLAND JAN HAYEN DANHARKSHAVN KAP TOBIN CLYDE THULE A.B. RESOLUTE ISACHSEN HOULD BAY SACHS HARBOUR BARTER ISLAND BARROU OSTROV YRANGELJA OSTROV YRANGELJA OSTROV YCTEL/HYJ BUHTA TIKSI OSTROY PREOBRAZENIJA HYS CELJUSKIN OSTROV UEDINENIJA OSTROV UEDINENIJA OSTROV UEDINENIJA OSTROV VIZE HYS ZELANIJA HALYE KARHAKULY BARENCBURG BJOPHOVA EUREKA NO RADIOSONDE STATION IN TH	COUNTRY	PAGE
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222	84228	EGEDESMINDE	GREENLAND	111-314
225	72915	CORAL HARBOUR	CANADA. N.W.T.	111-315
225	74991	HALL BEACH	CANADA. N.W.T.	111-316
227	72925	CAMBRIDGE BAY	CANADA, N.W.T.	111-317
228	72938	COPPERMINE	CANADA, N.W.T.	111-318
233	78133	KOTZERUE	U.S. BLASKA	111-319
233	25399	MYS UZLEN	U.S.S.R.	111-320
233	78286	NOME	U.S. ALASKA	111-321
234	25594	BUHTA PROVIDENIJA	U.S.S.R.	111-322
234	25173	MYS SHIDTA	U.S.S.R.	111-323
235	25563	AHADYR	U.S.S.R.	111-324
235	25677	BUHTA UGOLNAJA	U.S.S.R.	111-325
236	25934	KORF	U.S.S.R.	111-326
245	23146	MYS KAMENNYJ	U.S.S.R.	111-327
246	23022	ANDERNA	U.S.S.R.	111-328
249	26063	LENINGRAD (TOHN)	U.S.S.R.	111-329
249	22802	SORTOVALA	U.S.S.R.	111-330
250	02057	LULER/KALLAX	SHEDEN	111-331
251	01152	BODO	NORWAY	111-332
251	02056	SUNDSVALL/HARNOSAND	SHEDEN	111-333
252	4YH	FIXED SHIP	HORWEGIAN SEA	111-334
252	01241	ORLAND	NGRHAY	111-335
253	01001	JAN MAYEN	NORWAY	111-336
254	84328	DANHARKSHAVN	GREENLAND	111-327
255	04348	KAP TOBIN	GREENLAND	111-338
259	74090	CLYDE	CANADA. N.H.T.	111-339
259	84282	THULE A.B.	GREENLAND	111-348
262	72924	RESOLUTE	CANADA. H.W.T.	111-341
263	74074	ISACHSEN	CANADA, H.W.T.	111-342
264	74072	MOULD BAY	CANADA. H.W.T.	111-343
265	74951	SACHS HARBOUR	CANADA, N.H.T.	111-344
267	70086	BARTER ISLAND	U.S. ALASKA	111-345
268	70026	BARRON	U.S., ALASKA	111-346
279	21982	OSTROY YRANGELJA	U.S.Ś.R.	111-347
272	21965	OSTROY CETYREHSTOLBOVOJ	U.S.S.R.	111-348
273	21358	OSTROV ZOHOVA	U.S.S.R.	111-349
274	21647	HYS SALAUROVA	U.S.S.R.	111-350
275	21432	OSTROV KOTEL'HYJ	U.S.S.R.	111-351
276	21824	BUHTA TIKSI	U.S.S.R.	111-352
277	21504	OSTROV PREOBRAZENIJA	U.S.S.R.	111-353
278	20292	HYS CELJUSKIH	U.S.S.R.	11-354
288	20674	OSTROV DIKSON	U.S.S.R.	111-355
288	20274	OSTROV UEDINENIJA	U.S.S.R.	111-356
281	20667	OSTROV BELJY	U.S.S.R.	111-357
281	28869	OSTROV VIZE	U.S.S.R.	111-358
282	20353	HYS ZELANIJA	U.S.S.R.	111-359
283	20744	HRLYE KARHAKULY	U.S.S.R.	111-369
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287	01028	ВЈОРНОУА	HORHAY	111-362
297	72917	EUREKA	CANADA, N.H.T.	111-363
308		NO RADIOSONDE STATION IN TH	IIS MARSDEN SOURRE	111-364

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2011005	5K +070	A++u	COUNTRY	BACE
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301	CIGGO	ACCEMETAN TOLAND	OCEAN ISLANDS	111-365
303	02400	EEDWANDO NODONNO	200711	111-366
303	02307	ENDTOLEZO	200711	111-367
363	02371	NOTO: (GUCHETO SEVERO)	DDQ711	111-368
363	92999	PECIEE CHRANG	PRAZII	111-369
384	82193	RELEM (VAL DE CAS)	RP9711	111-370
384	82288	S80 1117	PRAZII	111-371
308	84898	SAN CRISTORAL	ECUADOR	111-372
389	0.000	NO RADIGSONDE STATION I	N THIS MARSDEN SQUARE	111-373
313	91925	ATHONA	FRENCH OCEANIA	111-374
317	91700	CANTON ISLAND	TOKELAU ISLANDS	111-375
318	91643	FUNAFUTI	ELLICE IS.	111-376
319	91517	HONIARA	BRITISH SOLOMON IS.	111-377
320		NO PADIOSONDE STATION I	IN THIS MARSDEN SQUARE	111-378
321	94827	LAE	NEW GUINEA, AUSTRALIAH	111-379
322		NO RADIOSONDE STATION I	IN THIS MARSDEN SQUARE	111-380
323		HO RADIOSONDE STATICH I	IN THIS MARSDEN SQUARE	111-381
324		NO RADIGSONDE STATION I	IN THIS MARSDEN SQUARE	111-382
325	96743	DJAKARTA/KEMAJORAN	INDONESIA	111-383
326		NO RADIOSONDE STATION I	IN THIS MARSDEN SQUARE	111-384
328	61967	DIEGO GARCIA	OCEAN ISLANDS	111-385
328	41358	GAN	INDIAN OCEAN, MALDIYE IS	111-386
331		NO RADIOSCHDE STATION I	IN THIS MARSDEN SQUARE	111-387
332	63894	DAR ES SALAAM AIRPORT	TANZANIA	111-388
334	66160	LUANDA	ANGOLA	111-389
335		NO RADIOSONDE STATION I	IN THIS MARSDEN SQUARE	111-398
336		NO RADIOSONDE STATION I	IN THIS MARSDEN SQUARE	111-391
339	83229	SALVADOR (ONDINA)	BRAZIL	111-392
342	83298	VILHENH (REVOPORTO)	BRHZIL	111-393
343	84628	LIMH-CHECHU	PERU	111-394
343 358	84631	LINHINDSO	PERU	111-395
358	71744	MAU TOUTTI-EDOO	FRENCH OCCURR	111-396
350 353	71730	DACO DACOZINI AIDOCOI	CHEDICOU COMOO	111-377
353 354	91600	EQUAT	ETIT TOLOUNG	111-370
355	91558	VIIA	NEW MEROTRES	111-400
356	94299	WILLIS ISLEND	AUSTRA! TAN NEW CUINEA	111-481
357	94294	TOWNSVILLE	AUSTRAL TA	111-402
358	94120	DARHIN AERO	AUSTRALIA	111-403
359	94283	BROOME	AUSTRALIA	111-404
369		NO RADIOSONDE STATION I	N THIS MARSDEN SQUARE	111-405
361		NO RADIOSONDE STATION I	N THIS MARSDEN SQUARE	111-486
362	96996	COCOS ISLAND	INDONESIA	111-407
367		NO RADIOSONDE STATION I	IN THIS MARSDEN SQUARE	111-408
368		NO RADIOSONDE STATION I	N THIS MARSDEN SQUARE	111-409
370		NO RADIOSONDE STATION I	N THIS MARSDEN SQUARE	III-410
371		HO RADIOSONDE STATION I	N THIS MARSDEN SOUARE	111-411
374	83658	TRINDADE (ISLAND)	BRAZIL	111-412
375		NO RADIOSONDE STATION I	N THIS MARSDEN SOUARE	111-413
376	83746	RIO DE JANEIROZINTL.	BPAZIL	III-414
379	85442	ANTOFAGASYA/CERRO MOREN	O CHILE	111-415
379		NO RADIOSONDE STATION I	COUNTRY OCEAN ISLANDS BRAZIL BRAZIL BRAZIL BRAZIL BRAZIL BRAZIL BRAZIL BRAZIL ECUADOR IN THIS MARSDEN SOUARE FRENCH OCEANIA TOKELAU ISLANDS ELLICE IS. BRITISH SOLOMON IS. IN THIS MARSDEN SQUARE NEW GUINEA, AUSTRALIAN IN THIS MARSDEN SQUARE INDONESIA IN THIS MARSDEN SQUARE INDONESIA IN THIS MARSDEN SQUARE INDONESIA IN THIS MARSDEN SQUARE INDONESIA IN THIS MARSDEN SQUARE INDONESIA IN THIS MARSDEN SQUARE INDONESIA IN THIS MARSDEN SQUARE INTIS MARSDEN SQUARE INTIS MARSDEN SQUARE INTIS MARSDEN SQUARE IN THIS MARSDEN SQUARE IN THIS MARSDEN SQUARE IN THIS MARSDEN SQUARE IN THIS MARSDEN SQUARE INTONESIA IN THIS MARSDEN SQUARE INTONESIA IN THIS MARSDEN SQUARE INTONESIA IN THIS MARSDEN SQUARE INTONESIA IN THIS MARSDEN SQUARE INTONESIA IN THIS MARSDEN SQUARE INTONESIA IN THIS MARSDEN SQUARE	111-416

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SQUARE	BK/STA	CITY	COUNTRY CHILE FRENCH OCEANIA FRENCH OCEANIA COOK ISLANDS NEW ZEALAND AUSTRALIA NEW CALEDONIA GUSTRALIA GUSTRALIA GUSTRALIA AUSTRALIA AUSTRALIA AUSTRALIA AUSTRALIA AUSTRALIA THIS MARSDEN SQUARE OCEAN ISLANDS MALAGASY REPUBLIC MOZAMBIOUE SOUTH MEST AFRICA THIS MARSDEN SQUARE THIS MARSDEN SQUARE ARCENTINA BRAZIL ARCENTINA CHILE NEW ZEALAND THIS MARSDEN SQUARE AUSTRALIA AUSTRALIA AUSTRALIA AUSTRALIA AUSTRALIA GUSTRALIA GUSTRALIA GUSTRALIA AUSTRALIA AUSTRALIA AUSTRALIA AUSTRALIA GUSTRALIA GUSTRALIA GUSTRALIA GUSTRALIA AUSTRALIA AUSTRALIA AUSTRALIA GUSTRALIA CHILE	PAGE
HUMBER	NUMBER			NUMBER
382	85469	ISLA DE PASCUA	CHILE	111-417
385	91948	RIKITEA	FRENCH OCEANIA	III-418
386	91958	RAPA	FRENCH OCEANIA	111-419
387	91843	RAROTONGA	COOK ISLANDS	111-420
389	93997	RADUL IS. KERNADEC IS.	NEW ZEALAND	III-421
391	9499€	NORFOLK ISLAND	AUSTRALIA	111-422
391	91592	NOUMER (NLLE-CALEDONIE)	NEH CALEDONIA	111-423
392	94578	BRISBANE PIRPORT	AUSTRALIA	111-424
392	94360	GLADSTONE M.O.	AUSTRALIA	111-425
396	94300	CARNARYON	AUSTRALIA	111-426
396	94312	PORT HEDLAND	AUSTRALIA	111-427
397		NO RADIOSONDE STATION IN	THIS MARSDEN SQUARE	111-428
482	61995	VACOAS (MAURITIUS)	OCEAN ISLANDS	111-429
403	67197	FT DAUPHIN	MALAGASY REPUBLIC	111-430
484	67341	LOURENGO MARQUES	MOZAMBIQUE	111-431
406	68486	ALEXANDER BAY	SOUTH WEST AFRICA	111-432
407		NO RADIOSONDE STRTION IN	THIS MARSDEN SQUARE	111-433
412		NO RADIOSONDE STATION IN	THIS MARSDEN SQUARE	111-434
413	87576	EZEIZA	ARGENTINA	111-435
413	83971	PORTO ALEGRE	BRAZIL	111-436
414	87748	BASE AERONAVAL ESPORA	ARGENTINA	111-437
415	85543	QUINTERO	CHILE	111-438
426	93119	AUCKLAND AIRPORT	NEW ZERLAND	111-439
426		HO RADIOSONDE STATION IN	THIS MARSDEN SQUARE	111-440
427	-	NO RADIOSONDE STATION IN	THIS MARSDEN SQUARE	111-441
428	94995	LORD HOWE ISLAND	AUSTRALIA	111-442
428	94758	NOURA	AUSTRALIA	111-443
428	94776	MILLIANTONN	RUSTRALIA	111-444
429	94865	LHVERIUM (HERU)	HUSTRHLIH	111-445
439	94672	HUELHIDE HIRPURI	HUSTRHLIH	111-446
431	94638	ESPERANCE M.U.	HUSTRHLIH	111-447
432	94802	HLBHNY N.U.	HUSTRHLIH	111-448
432	94618	PERIH HIRPURI	HUSTRHLIH	111-449
436	61336	THE MUNAETTE-HUZIEKTHU	OCERN ISCHNOS	111-450
446	68288	DOUGH (FROIS ROIMH)	SOUTH HERICH	111-451
441	68842	PURI ELIZHBEIN	SOUTH HERICK	111-452
442		NO KHUIGSONDE SINIION IN	THIS THESEN SUUNKE	11:-453
444	68786	UO DOMINGOUDE CYCTION IN	THE MODERN COURT	111-454
449	07000	NO KHDIOZONDE ZIM: ION IN	INTO UNKOREN SKONKE	111-455
450	87868	CONODORO KIVHBRYIN	HKGENIINH	111-456
421	92961	PUENTO MOUTT (EL TEN	CHILE	111-457
451	93696	CHOTHOM TOLOND	UTILE	111-458
461	73786	CHAIRM ISCHAD	NEW ZEMENNY	111-459
462	73780	UNNORT GEORGET	NEW ZERLAND	111-460
472	24717 21900	DOST_CHY_CDAVCAIC	OCEOU TELOUDE	111-461
476	21770	MODIOU TOLOUD	ACEUU TOCHUD	111-452
410	070274	FETO-ION OCCUPANO	SOUIN NEKIUM ADCENTINA	111-463
106	07936	CTACION AEDONAVAI	OCCUTIVO	111-464
400	01760	NO DEDITIONAL CTATION IN	THIS MADSTEN COHART	111-465
100	92944	COMPACT TOTAL STATEM IN	NEU TEAL OUT	111-466
500	94900	MACOUADIE ISLAND	AUCTON TO	111-401
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517		NO RADIOSONDE STATION	IN THIS MARSDEN SQUARE	III-469
520	88968	NAVAL DETACHMENT	ARGENTINA, ORCADAS IS.	III-470
521	89858	BELLINGHAUSEN	ANTARCTICA	111-471
522	88952	ARGENTINE IS.	ARGENTINA	111-472
523		NO RADIOSONDE STATION	IN THIS MARSDEN SOUARE	111-473
524		NO RADIOSONDE STATION	IN THIS MARSDEN SQUARE	111-474
525		NO RADIOSONDE STATION	IN THIS MARSDEN SQUARE	111-475
526		NO RADIOSONDE STATION	IN THIS MARSDEN SQUARE	111-476
537	95502	DUMONT DURVILLE	ANTARCTICA	111-477
548	89511	HILKES	ANTARCTICA	111-478
542	89592	MIRNYJ	ANTARCTICA	111-479
544	89571	DAVIS	ANTARCTICA	III-488
545	94986	MARSON (AUST.)	ANTARCTICA	III-481
547	89542	MOLODEZNAJA	ANTARCTICA	111-482
548	89532	SYONA	ANTARCTICA	111-483
552	89001	S.A.N.A.E. STATION	ANTARCTICA	111-484
571	89664	HCHURDO	ANTARCTICA	III-485
982	04310	NORD	GREEHLAND	111-486
907	74082	ALERT	CANRDA, N.W.T.	111-437
931	20046	OSTROY HEJSA	U.S.S.R	111-486

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144	60390	HEREKANAK EF PEIDU	OMEDICAN SAMOA	111-398
353	91765	PHGO PHGOZINI.HIKPOKI	ANCOL A	111-389
334	66169	LUHNDH	AUTAPOTICA	111-471
521	89050	BETTIMPHHASEM	ONTOPOTICA	111-480
544	89571	DHV15	ONTOPOTICA	111-477
537	95502	DOMONI DOKYTELE	ANTADATICA	111-481
545	94986	MHMSUN (NUSI.)	ONTOPOTICA	111-485
571	89664	NCHURUU MARNUA	ANTARCTICA	111-479
542	89592	MIKNIJ	ANTARCTICA	111-482
547	89542	RULUUE4NAJA	ANTARCTICA	111-484
552	89001	S.H.N.H.E. SINITON	ANTARCTICA	111-483
548	89532	STURM	ANTARCTICA	111-478
540	89511	WILKES	ANTIGUA. BRITISH IS.	111-50
043	78861	COOLINGS LIEED	APARIA-PED SEA	111-89
968	40597	MOCTOON	ARARIAN PENINSULA	111-142
103	48364	ORCENTINE IS	ARCENTINA	111-472
522	88952	MKGENIINE 13.	ARCENTINA	111-437
414	87748	SHOE HEROHITTHE ESTORIS	RECENTINA	111-456
450	87856	COUDOKO KI-UDUATIO	ARCENTINA	111-464
486	87938	ESINCION NEKONNYNE	ARCENTINA	111-435
413	87376	CTOCION GEDONAVAL	ARGENTINA	111-465
486	87926	HOUGH TETRCHMENT	ARGENTINA, ORCADAS IS.	111-470
520	88768	ANCIOING AIRPORT	AUSTRALIA	111-446
430	74672	OLDONA N U	AUSTRALIA	111-448
432	94502	PRICEOUS AIRPORT	AUSTRALIA	111-424
392	24210	BRISDING MINION	AUSTRALIA	111-464
337	04200	CODRESOUR	AUSTRALIA	111-426
375	94120	DAPUIN AFPO	AUSTRALIA	111-403
330	94638	ESPERANCE M.O.	AUSTRALIA	111-447
431	94399	CLARSTONE M.O.	AUSTRALIA	111-425
165	94975	HORART AIRPORT	AUSTRALIA	III-461
403	94865	LAVERTON (BERO)	AUSTRALIA	111-445
429	94995	I ORD HOME ISLAND	RUSTRALIA	111-442
588	94998	MACQUERIE ISLAND	AUSTRALIA	111-468
391	94996	HORFOLK ISLAND	AUSTRALIA	111-422
428	94756	NONRA	AUSTRALIA	111-443
432	94618	PERTH AIRPORT	AUSTRALIA	111-449
396	94312	PORT HEDLAND	AUSTRALIA	111-427
357	94294	TORNSYILLE	AUSTRALIA	111-402
128	94776	HILLIANTOWN	AUSTRALIA	111-444
356	94299	HILLIS ISLAND	AUSTRALIAN HEH GUINEA	111-481
888	78118	TURKS ISLAND (AUX. AFE)	Bahamas	111-188
080	78076	COFFIN HILLS	BAHAHAS, ELEUTHERA IS.	111-98
080	78063	GOLD ROCK CREEK	BAHAMAS, GRAND BAKAMA IS	111-99
144	08302	PALMA/SON BONET	BALEARIC ISLANDS	111-207
042	78954	SEAWELL AIRPORT	BARBADOS	111-48
115	78916	KINDLEY FIELD AFB	BERHUDA	111-155
394	82193	BELEM (VAL DE CAS)	BRAZIL	111-370
383	82498	FERNANDO HORONHA	BRRZIL	111-366
303	82397	FORTALEZA	BRAZIL	111-367
393	82599	NATAL (AUGUSTO SEVERO)	BRAZIL	111-368

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413	037/1	PECTEE CURARA	8P8711	111-369	
363	82900	DIO DE TOUETDO-INTE	899711	111-414	
3/6	02220	KIO DE JUNEIKO, INIE.	RRAZII	111-392	
337	03227	CAN LITT	BRAZIL	111-371	
304	02200	TRINDARE (ISLAND)	BRAZIL	III-412	
2/2	03006	VILHENA (AFVAPARTA)	BRAZIL	111-393	
219	91517	HONTARA	BRITISH SOLOMON IS.	111-377	
036	64918	DOLLA	CAMEROON	111-41	
151	74399	SHELBURNE	CANADA	111-218	
150	72801	ST JOHNS/TORBAY	CANADA	111-215	
193	74189	PORT HARDY	CANADA, BRITISH CO.	111-278	
198	72913	CHURCHILL	CANADA, MANITOBA	111-277	
151	72600	SABLE ISLAND	CANADA, H.S.	111-217	
997	74082	ALERT	CANADA, N.H.T.	111-487	
227	72925	CAMBRIDGE BAY	CANADA, N.U.T.	111-317	
259	74090	CLYDE	CANADA, N.W.T.	111-339	
228	72938	COPPERMINE	санава, н.ш.т.	111-318	
225	72915	CORAL HARBOUR	CAHABA, N.H.T.	111-315	
297	72917	EUREKA	CANADA, N.H.T.	111-363	
225	74081	HALL BEACH	санада, н.ж.т.	111-316	
263	74074	ISACHSEN	CANADA, N.H.T.	111-342	
264	74072	MOULD BAY	CANADA, N.W.T.	111-343	
262	72924	RESOLUTE	CANADA, N.W.T.	111-341	
265	74051	SACHS HARBOUR	CANADA, N.W.T.	111-344	
150	72807	ARGENTIA	CANADA, NEKFOUNDLAND	111-214	
158	72815	STEPHENVILLE	CHNHUH, NEUFOUNDERND	111-216	
189	72836	NOOSGNEE	CHMADA, UNITARIO	111-270	
187	72986	FORT CHIMU	CONODO OUEDEC	111-275	
188	72907	INDUCUJOUHC	CONODO ONEDEC	111-274	
187	72811	SEPI-ILES	COURT TOUR	111-8	
908	78886	HUNHRU HIR FURCE BHSE	CONODA 16: UNDC	111-92	
074	60020	SHIR CRUZ DE TENERIFE	CAPAL THE ISLANDS	111-23	
021	91334	VGD	CAPOLINE ISLANDS	111-26	
023	12466	COLOMBO	CEYLON	111-37	
279	95449	ANTOFACASTA/CERRO MORFIN	CHILE	111-415	
202	95469	ISLA DE PASCHA	CHILE	III-417	
352	95981	PHERTO MONT!	CHILE	111-457	
451	25749	PHERTO MONTIZEL TEP	CHILE	111-458	
415	85543	QUINTERO	CHILE	111-438	
897	59758	HRIKON	CHINR	111-132	
861	59981	HSI SHA CHOU/PARACEL IS.	CHINA	111-79	
897	59134	SHAMEN	CHINA	111-136	
997	59316	SHANTOU	CHINA	111-137	
096	58666	TA CHEN TAO	CHINA	111-128	
132	54662	TALIEN	CHINA	111-188	
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897	59663	YANGCHIANG	CHINA	111-138	
697	46734	MAKUNG	CHINA (TAIWAK)	III-134	
697	46810	PRATAS IS.	CHINA (TAIWAN)	111-135	
096	46692	TAIPEI	CHINA (TAINAN)	111-129	

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681	78325	CASA BLANCA	EUBA	III-104
844	78367	GUANTANANO	CUBA	111-57
845	78384	ROBERTS FIELD	GRAND CAYNAN, CAYNAN IS.	1*1-59
044	78397	KINGSTON/PALISADOES	JAMAICA	111-58
843	78486	SANTO DOMINGO	DOMINICAN REPUBLIC	111-56
945	78581	SHAN ISLAND	SWAN ISLAND	111-61
943	78526	SAN JUAH/INT.	PUERTO RICO	111-55
608	78896	HONRRD AIR FORCE BASE	CANAL ZONE	111-8
043	78861	COOLIDGE FIELD	ANTIGUA, BRITISH IS.	111-50
043	78866	JULIHAH HIRPURI	ST. MARTIN	111-52
943	78897	KHIZE!	GUADELUPE ISLAND	111-54
042	78734	SEMMELL MIKROKI	RHKRHDOS	111-48
043	78767	CHARGAKATAS	IKINIDAD - TARAGA	111-49
043	70000	TINCOVPORT OF STRIM	IKINIDAD + IORMOO	111-53
045	00001	CON UNDES	COLOMBIA	111-21
095	81493	KUIRUN	COCUMBIA	111-00
886	81485	CAYENNE / PRCHAMBEGIS	ESENCH CHICKLE	111-6
304	82193	RELEM (VAL DE CAS)	DEOTH	111-0
304	82280	S80 LUIZ	RP9711	1:1-371
303	82397	FORTBLEZA	PRAZIL	111-367
303	82400	FERNANDO NORONHA	BRAZIL	111-366
303	82599	NATAL (AUGUSTO SEVERO)	BRAZIL	111-368
303	82988	RECIFE CURADO	BRAZIL	111-369
342	83208	VILHENA (AEVOPORTO)	BRAZIL	111-393
339	83229	SALVADOR (ONDINA)	BRAZIL	111-392
374	83650	TRINDADE (ISLAND)	BRAZIL	111-412
376	83746	RIO DE JANEIRO/INTL.	BRAZIL	111-414
413	83971	PORTO ALEGR	BRAZIL	111-436
308	84008	SAH CPISTOBAL	ECUADOR	111-372
343	84628	LIMA-CALLFO	PERU	111-394

RADIOSONDE STATIONS BY HMO BLOCK AND STATION NUMBER

SQUARE	BK/STA	CITY	PERU CHILE ARGENTINA ARGENTINA ARGENTINA ARGENTINA ARGENTINA ARGENTINA ARGENTINA ARGENTINA ARGENTINA ARGENTINA ARGENTICA ANTARCTICA ANT	PAGE NUMBER
HUHBER	HUMBER			
242	04531	: TMATSHRO	PERU	111-395
343	05442	ANTOFACASTA/CERRO MORENO	CHILE	111-415
317	05469	TSUR DE PASCUR	CHILE	111-417
415	95543	CUINTERO	CHILE	111-438
481	85799	PUERTO MONTT/EL TEP	CHILE	111-458
451	85881	PUERTO MONTT	CHILE	111-457
413	87576	EZEIZA	ARGENTINA	111-435
414	87748	BASE REROHAVAL ESPORA	ARGENTINA	111-437
450	87860	COMODORO RIVADAVIA	ARGENTINA	111-456
486	8792€	STACION AERONAVAL	ARGENT INB	111-465
486	87938	ESTACION AERONAVAL	ARGENTINA	111-464
522	88952	ARGENTINE IS.	ARGENTINA	111-472
520	88968	HAVAL DETACHMENT	ARGENTINA, URCHUHS 15.	111-470
552	89001	S.A.N.A.E. STATION	ARTARCTICH	111-707
521	89850	BELLINGHAUSEN	ANTARCTICH	111-493
548	89532	SYONA	ANTRRETICH	111-402
547	89542	MOLODEZNAJA	HNIHRCIICH	111-488
544	89571	Davis	HNINKCIICH	111-479
542	89592	HIRNYJ	HNIHKCIICH	111-478
540	89611	WILKES	HMINKCIICH	111-485
571	89664	MCMURBO	NADEL DOCIETO OCERN	111-120
094	91030	CHICHI JIMA ISLEMU	NORTH PACIFIC OCCUM	111-116
099	91866	MIDUAY ISLAND	HORTH PACIFIC OCEAN	111-121
694	91115	INO JINH HIKETELD	HORTH PACIFIC OCEAN	111-119
093	91131	MAKCO2 ISCHUR	n.s. HAWAII	111-114
688	91165	LINGE	TAGUAC. MARIANA IS.	111-75
958	91217	FORU	NORTH PACIFIC OCEAN	111-73
956	91245	CHINETON OTO!!	MARSHALL IS.	111-72
926	71230	TOURSTON ISLAND	NORTH PACIFIC OCEAN	111-69
053	91275	HT: OZGEN, LYMAN	U.S., HAWAII	111-68
032	91234	TRIIK	CAROLINE ISLANDS	111-53
021	91348	PONAPE	EASTERN CAROLINE IS.	111-22
021	91366	KNAJALEIN	MARSHALL IS.	111-21
819	91376	MAJURÓ	MARSHALL IS.	111-19
823	91488	KOROR	NORTH PACIFIC OCEAN	111-25
823	91413	YRP	CAROLINE ISLANDS	111-26
319	91517	HONIARA	BRITISH SOLOMON IS.	111-377
355	91558	VILA	NEW HEBRIDES	111-400
391	91592	HOUMEA (HLLE-CALEDONIE)	NEW CALEDONIA	111-423
019	91618	TARAWA/ GILBERT IS.	NORTH PACIFIC UCEAN	111-20
318	91643	FUNRFUTI	ELLICE IS.	111-370
354	\$1680	HAHDI	FINE VALUE CANDO	111-375
317	91780	CANTON ISLAND	IORETHO ISTUMBS	111-398
353	91755	PAGO PAGO/INT.AIRPORT	MUCKICHU SUMMA	111-428
387	91843	RAROTONGA	COOK 12FUUD3	111-374
313	91925	ATUONA	EDENCH UCEDAIN	111-397
350	91938	TAHITI-FARR	EDENCH OCENNIA	111-396
359	91944	HRO	EDENCH OCEANIA	111-418
385	91948	RIKITER	ERENCH OCEANIA	111-419
386	91958	KHLH CAN CIOCOSI	NEW ZEALAND	111-439
426	93119	HACKTHUR HIKLOK!	HEAL PRINCIPLE	

RADIOSONDE STATIONS BY WMO BLOCK AND STATION NUMBER

SQUARE	BK/STA	CITY	COUNTRY	PAGE
HUMBER	NUMBER			NUMBER
			NEW ZEALAND NEW ZEALAND NEW ZEALAND NEW ZEALAND	
462	93780	CHRISTCHURCH AIRPORT	NEW ZEALAND	111-460
499	93944	CAMPBELL ISLAND	NEW ZEALAND	111-467
461	93986	CHATHAM ISLAND	NEW ZEALAND	III-459
389	93997	RAOUL IS. KERMADEC IS.	NEW ZEALAND	III-421
321	94027	LAE	NEW GUINEA, AUSTRALIAN	111-379
358	94128	DARHIN AERO	AUSTRALIA	111-403
359	94283	BROOME	AUSTRALIA	111-404
357	94294	TOHNSVILLE	AUSTRALIA	III-482
356	94299	WILLIS ISLAND	AUSTRALIAN NEW GUINEA	III-481
396	94300	CARNARYON	AUSTRALIA	111-426
396	94312	PORT HEDLAND	RUSTRALIA	111-427
392	94388	GLADSTONE M.O.	AUSTRALIA	111-425
392	94578	BRISBANE AIRPORT	AUSTRALIA	111-424
432	94610	PERTH AIRPORT	AUSTRALIA	III-449
431	94638	ESPERANCE M.O.	AUSTRALIA	III-447
439	94672	DARWIN AERO BROOME TOWNSVILLE WILLIS ISLAND CARNARVON PORT HEDLAND GLADSTONE H.O. BRISBANE AIRPORT PERTH AIRPORT ESPERANCE M.O. ADELAIDE GIRPORT NOWAR	NEW GUINEA, AUSTRALIAN AUSTRALIA	111-446
428	94758	NOURA HILLIAHTOUN ALBANY N.O. LAVERTON (AERO)	AUSTRALIA	111-443
428	94776	HILLIANTORN	AUSTRALIA	III-444
432	94802	ALBANY N.O.	AUSTRALIA	III-448
429	94865	LAVERTON (AERO)	AUSTRALIA	111-445
465	94975	HUBBKI HIKFUKI	RUSTRALIA	111-461
545	94986	MANSON (AUST.)	ANTARCTICA	111-481
428	94995	LORD HOWE ISLAND NORFOLK ISLAND	AUSTRALIA	III-442
391	94996	HORFOLK ISLAND	AUSTRALIA	111-422
500	94998	MACQUARIE ISLAND	AUSTRALIA	III-468
537	95582	DUMONT DURVILLE JESSELTON	RNTARCTICA	111-477
025	96471	JESSELTON	INDONESIA, N. BGRNEO	111-28
325	96743	DJAKARTA/KEMAJORAN	INDONESIA	111-383
362	96996	COCOS ISLAND LAOAG MACTAN INTL ZAMBOANGA	INDONESIA INDONESIA PHILIPPINES PHILIPPINES PHILIPPINES PHILIPPINES	111-407
969	98223	LAOAG	PHILIPPINES	111-77
968	98646	MACTAN INTL	PHILIPPINES	111-78
024	98836	ZAMBOANGA	PHILIPPINES	111-27

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ECENTIACOCCO TRANSPORT CONTROL

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IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 15 N 3 55 W (*) INDICATES INSUFFICIENT DATA Radiosonde source: 65578 5 15 N 3 55 W

Radiosonde station height: 20 Feet

Surface obs source: HS1 5 00 N 5 00 N

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESH COM RANCES:

PERCENT OCCORRENCE (<u>,, L</u>	42.10.1114		<u> </u>		, , ,						*****			
FREQUENCY	Y	ERRL'	4	31	AN-MI	RR	R	PR-JI	JH	_ J	リレーSI	EP	็อ	CT-Ď	EC
<u> </u>	day	nit	d&n	day	rit	din	day	nit	d&n	day	การ	den	day	nit	d&n
100 HHz	4	3	3	5	- 6	6	3	3	3	3	2	3	4	1	3
1 GHz	40	19	39	53	31	42	33	18	26	28	14	21	46	14	30
3 GHz	_48	24	36	61	38	59	48	24	32	36	18	27	53	17	25
6 GHz	72	58	61	80	39	69	69	56	62	65	44	54	75	41	58
10 GHz	90	83	87	93	86	89	98	85	88	87	78	83	92	83	27
20 GHz	96	92	94	97	93	95	96	93	95	93	89	91	96	93	95

SURFACE RASED DUCT SUMMARY:

PARAMETER	Yi	EARL	Y	J	AH-HI	AR .	AF	R-J	JH	Ji	JL-5	P	00	CT-DE	i
	day	nıt	d&n	day	nit	d&n	day	nıt	dan	dav	nit	d&n	day	nıt	d* 1
Percent occurrence	22	18	20	36	32	31	19	17	18	14	13	14	24	9	_, _
AVG thickness Kft	i		. 36	l		.34			.37	ł		.40			. 32
AYG trap freq GHz			.53	1		. 45	ŀ		.61			. 44	ĺ		. 54
AVG lur grd -N'Yft			183	<u></u>		94			101			110			107

ELEVATED DUCT SUMMARY:

PSRAMETER	Y	APL'	Y	Ji	A11-M	ar -	AF	R-JI	UH	- 31	1L-5E	P	00	T-DE	EC
	day	nit	den	day	nit	d&n	day	nit	d&n	day	112 %	_ರಕ್ಕ	day	nit	dan
Percent occurrence	10	11	16	21	13	17	1	7	4	11	13	12	6	10	8
AVG top ht Kft			5.9	l		6.5			4.2			5.3	l		€.6
AVG thickness Kft	Ĺ		.62	I		. 59	i		.94			. 53	l		.41
AVG trap freq GHz			.32	_		.49			.13			.29			· · · .
AVG lyr grd -N/Kft	ł		64	i		59	ł		74			61	l		1,2
AVG lyr base Kft			5.5	l		6.1	í		3.6			6.0	I		6.4

EMAPORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PERCENT OCC	IRRENCE	YE	ARLY	1	31	AH-MI	R.	AI	P-J	ИL	Ji	JL-SE	P	00	T-DE	ζ
		day	nit	dan	day	nit	dan	day	nıt	dan	dau	rit	dtn	Jav	nis	die
0 to 10	Feet	3	3	3	2	3	3	2	2	2	5	6	-5	3	2	ž
10 to 20	Feet	3	7	5	3	8	5	3	6	5	4	7	- 6	2	5	-4
20 to 30	Feet	6	11	9	<u> 6</u>	11	8	7	10	ટ	_ 7	12	10	င်	11	- 8
30 to 40	Feet	5	17	13	7	17	12	11	13	12	10	17	15	9	19	14
40 to 50	Feet	13	23	18	11	22	16	15	22	18	15	22	19	12	25	3
58 to 60	Feet	14	18	16	11	16	14	16	22	19	15	16	16	12	17	: 5
60 to 70	Feet	9	- 8	8	9	7	8	10	9	19	16	8	- 9	7	é	7
70 to 80	Feet	6	4	5	5	4	4	7	4	5	7	4	6	6	2	4
80 10 90	Feet	4	2	3	<u>i </u>	2	3	3	2	3	4	1_	3	3	1	_ 2
90 to 100	Feet	2	1	2	2	1	2	2	1	2	2	1	2	2	1	1
above 100	Feet	31	8	26	41	11	26	24	9	16	21	5	13	37	9	٤٤
tlean height	Feet	89	54	71	164	57	81	80	<u>56</u>	68	73	47	60	99	54	ာခ

PARAMETER	YERRLY		JAN-H	AR .	APR-JUN	JUL-SEF	OCT-DEC
	day nit	d\$n	day nit	d*n	day nit da	day nit den	day nit den
% occur EL&SB dcts		1		3		1	J
% occur 2+ EL dcts		8		0	(9 10	6
AVG station N	:	387		392	389	382	386
AVG station -N/Kft		19		22	15	17	18
AVG sec wind his	8.8 8.6	2.7	7.4 7.2	7.3	9.0 8.7 8.8	10 10 3	8.5 8.4 9 4

HISTORICAL PROPAGATION CONDITIONS SUMMAR IFEPS REV 2.1

(*) INDICATES IMSUFFICIENT DATA Specified location: 5 88 H 15 00 H

14 43 N 17 30 W Radiosonde source : 61641 89 Feet Padiosonde station height:

5 88 N 15 00 W Surface obs source: MS2

DELICHT OCCUPPENCE OF EMPONCED CHREACE-TO-CHREACE DARRO ESM COM PANCES.

PERLEN!	OCCORPENCE !	UP EI	MHM	LEN :	50KF1	HLE-	10-51	Fran	. E. RI	אחעיי	E 217	. 011	FINI	<u> </u>		
FRE	DUENCY	ŢΥĪ	ARL'	, 	31	H-HA	18	A1	R-JU	JH		ノレージ6	P	Ũ	T-DE	EL
L		day	nit	<u>d</u> &n	day	rit	din	day	กาะ	den	day	nıt	den	day	nıt	<u> </u>
100	MHz	17	22	20	22	29	25	22	25	24	4	4	4	21	39	26
1	GHz	63	63	63	76	82	79	79	69	69	34	21	28	72	81	27
3	GHz	68	68	_68	68	87	84	74	72	73	44	28	36	76	_ ଌ5	୫୦
6	GHz	84	89	82	89	98	89	85	81	84	74	58	66	86	89	37
10	GHz	95	93	94	95	96	96	95	93	94	93	88	91	95	95	∌ 5
28	64z	98	97	97	98	98	98	98	97	98	97	95	96	98	98	98

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	ERRLY	Υ	_ J ₁	AN-MI	ar i	AF	ネーJし	JH	Ji	JL-SE	EΡ	90	CT-DE	ΞC
	day	nit	den	lday	nit	dar	day	nıt	dan	day	DIT	dtn	day	17 ° E	don
Percent occurrence	51	65	58	€5	85	75	59	68	64	23	24	24	58	83	71
AYG thickness Kft	İ		.66	i		.58			.75			.60	i		.€8
AVG trap frag GHz	i		.23			. 17	l		. 15	l		. 44	l		. 15
AVG lyn and -H/Kft			106			104	ı		195	l		111	j		195

PARAMETER	Y	ARL'	Υ	J	คห-หเ	AR	A!	PR-JI	JH _	J1	リレーらり	P	00	CT-DI	EC
	dav	n11	d&n	day	nit	d&n	day	nit	dti	day	nit	dt n	day	nıt	din
Percent occurrence	27	21	24	21	14	18	39	24	32	26	28	27	23	18	1
AYG top ht Kft	ł		1.8			1.1	i		1.7	ĺ		2.7	l		1.7
AVG thickness Kft	ł		.77	!		.60	ĺ		. 84	i		.87	İ		.76
AVG trap freq GHz			.18	ī		.19			.16			.12	<u> </u>		.26
AVG lyr grd -H/Kft	ł		61	ı		66	1		59	1		60	ŀ		60
AVG for base kft	İ		1.2	ı		.71	!		1.1	ĺ		2.3	i		1.1

PERCENT OCC	URRENCE	11	ARL	1	J	AH-M	ar .	AI	PR-J	JH	JI	UL-SE	Ρ	00	T-DE	EC
		day	nit	dan	day	nit	dtn	day	nit	dan	ರಪ್ಪ	nit	dan	day	nit	d&n
0 to 10	Feet	2	2		2	4	3	2	2	2	1	2	2	2	2	- 2
18 to 20	Feet	3	9	6	4	12	8	3	8	5	2	5	3	3	11	7
20 to 30	Feet	7	12	_ 9	_6	14	_10	7	12	_10	6	9	_ ?	8	14	1:
30 to 40	Feet	9	16	13	8	17	13	9	15	12	10	17	13	9	17	15
49 to 50	Feet	13	21	17	12	19	16	14	21	18	14	23	18	11	22	1.7
_50 to £0	Feet	13	16	15	11	13	12	14	16	15	16	28	19	12	15	13
60 to 70	Feet	9	8	9	7	5	6	10	10	10	12	11	12	8	5	7
70 to 80	Feet	5	4	5	5	3	4	6	4	5	9	6	7	5	2	4
80 10 90	Feet	4	2	3	3	1	2	4	2	3	5	2	4	3	1	_ 2
90 to 100	Feet	2	1	2	2	1	1	2	1	5	3	1	- 2	2	1	1
above 100	Feet	32	3	28	40	10	25	30	9	19	22	5	14	37	9	23
Mean heigh	t feet	92	54	73	161	53	77	88	56	72	79	53	66	99	53	76

GENERAL HETEOROLOGY CUMMAPY:

PARAMETER	YEARLY	JAH-MAP	APR-JUN	JUL-SEP	OCT-DEC
	dau nit dan	day nit den	dau nit den	dau n t dan	dan nit dan
% occu. ELASB deta	3	5	รั	3	5
3 occur 2+ EL dets	3	1	4	4	i : i
AVG station N	365	348	361	382	367
AVG station -N-Yft	25	27	28	19	28
AVG sfc uind Yis	8.4 7.7 8.0	6.8 6.1 6.5	8.0 7.3 7.7	12 11 11	7.2 6.5 6.4

HISTORICAL PROPAGATION CONDITIONS SUMMAST IREPS REV 2.1

25 00 W (*) INDICATES INSUFFICIENT DATE Specified location: 5 00 N Radiosonde source : 82400 3 51 S 32 25 W Radiosonde station height: 148 Feet Surface obs source: MS3 5 00 H 25 00 H

FERICAL OFFIRSENCE OF ENHANCED SURFACE-TO-SURFACE PARAD FSM FOM PANCES.

ELCTIL OFCORPTICE	Or E	,46111331	CCD	200	nt E	, 0 3	Urra	CE "	LUCK				<u> </u>		
FREQUENCY	Ϋ́	EARL'	Y	J	AN-M	AR	A	PR-J	ÜH	J	UL-Si	ĔΡ	C	CT-D	EC
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	n·t	dan	day	<u>n1†</u>	din
100 MHz	1	1	1	*	*	2	*	*	*	1	1	1	*	*	*
1 GH2	29	9	19	*	*	¥		*	*	29	ė	19	*	*	-
3 GH2	41	15	_ 28	*	*	*	*	*	*	41	15	28	<u>+</u>	*	*
6 GH±	73	54	64	*	*	*	*	*	*	73	54	64	*	*	-
10 GHz	93	87	98	*	*	*	*	*	*	93	87	90	*	*	,
20 GHz	97	94	96	*	*	*	*	*	*	92	94	96	١.	*	

FORFACE BASED DOCT	SUMMENT:				
PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit den	day nit dan	day nit d&n	day nit dir
Percent occurrence	3 5 4	* * *	* * *	6 10 8	0 0 0
AVG thickness Kft	.39	*	•	.39	*
AVG trap freq GHz	1.1	*	+	1.1	•
AVG lun and -N'Kft	/2	*	· · ·	78	

PARAMETER	YI	EARL'	Ý	J	an-M	AR.	A	PP-JI	ŪН	J.	JL-\$	P	0	CT-DE	c
	dan	nit	dŧn	day	nit	den	day	nit	dan	day	nit	d&n	day	กเจ	dtn
Percent occurrence	34	16	25	*	-	+	*	*	*	30	32	31	38	0	<u> </u>
AVG top ht Kft			5.5	ĺ		*	ĺ		*	1		5.8	i		5.3
AVG thickness Kft			.44	i		*			+			. 5ช			. 30
AVG trap freq GHz			.65	Γ		*			*	Γ		.32			1.0
AVG lyr grd -N/Kft	ŀ		56	:		>	ŀ		•)		60	l		52
AVG for base ift			5.2	ĺ		¥	Ī		+	•		5.4	ĺ		5.0

EMAPOPATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT C	CCURRENCE	71	ERRL'	,	J	AH-HI	iR .	AF	R-JI	JR -	30	JL-5	EP	00	T-DE	5
		dau	nit	dan	day	nit	dan	day	nıt	den	Jav	n t	dtn	day	nit	đ
0 to 1	0 Feet	2	2	2	2	2	<u>></u>	2	2	2	1	1	1	2	2	3
18 to 2	0 Feet	2	5	4	2	4	3	3	5	4	2	4	3	3	5	4
20 to 3	8 Feet	_4	9	7	_ 4	8	6	5	9	7	4	8	•	5	16	-
30 to 4	& Feet	8	15	11	7	15	11	8	15	12	è	13	11	8	16	
40 to 5	O Feet	12	22	17	12	22	17	12	22	17	12	21	17	2.1	21	16
50 to 6	0 Feet	13	10	16	_12	19	16	:3	20	1€	12	20	1 =	14	18	15
50 to 7	0 Fe€t	11	12	12	13	13	13	16	11	1:	2.1	12	12	10	11	. ə
78 to 8	0 Feet	9	7	8	10	8	9	9	7	8	10	9	10	9	6	ક
28 10 9	() Feet	6	3_	4	_ ?	3	5	_ 5	2	4	_ 7	3	5	6	3	5
98 to 1	80 Feet	1		3	1	1	3	4	1	2	4	1	3	+	Ź	3
above 1	00 Feet	28	5	17	26	ร	16	36	6	18	27	5	16	29	š	. •
Mean hel	ght Feet	83	54	71	86	54	70	89	54	72	87	55	71	89	53	- 1

PAPAHETER	YEARL	Y	JA	N-H	P	AF	R-Ji	JH	J	UL-SEF	,	9CT-D	EC
	day nit	dŧn	day	nit	d&n	day	nit	dtr	da	-11 0	18 n	สุล การ	dt n
% occur EL&SD dcts		ī]		0			6			7		0
% occur 2+ EL dets		1	1		0			2	İ		2		63
AVG station N		372			+			+		3	72		371
AVG station -N/Kft		18	l		+			•			18		17
AVG sft wind Xts	11 10	10	12	10	11	10	9.5	10	11	16	11	10 9.3	10

Specified location:

5 88 N 35 88 H 32 25 H

(+) INDICATES INSUFFICIENT DATA

7.7.7.1 . .

AND COMPANY TRANSPORT PROPERTY

Ļ

Radiosonde source : 82400

Surface obs source: MS4

3 51 S

Padiosonde station height: 148 Feet

5 99 N 35 90 N

ERCEN OCCORR	FHIE OF F	HHHH	LED '	ンロット	HLE-	10-21	JXFH	(E M	нуны	E 212	C G M	PHI.	323:		
FREQUENCY	1	ERRL	Ÿ	J	AH-M	AP	A	PR-J	UH	71	: - 38	P	0.	CT-Di	EC
	da		dan	day	nit	d&n	day	nit	d&n	day	nit	den	dau	n11	_dan
100 MHz		1	1	+	*	*	*	*	¥	1	1	1	*	*	+
1 GHz	35	5 18	22	*	+	*	+	*	*	35	18	22	•	¥	•
3 GHz	1 -16	18	32	+	•	*	*	¥	>	46	13	32	•	*	_ •
€ GH=	76	61	68	*	+	*	*	*	+	76	51	દક	7	*	*
10 GHZ	93	3 89	91	+	*	*	*	4	*	93	89	91	÷	*	•
28 GHz	96	95	96	*	•	*	+	*	*	96	95	96	*	*	-

SUPFACE BASED DUCT SUMMAPY:

PARAMETER	71	ARL'	Y	J	AN-M	AR	Ri	PR-JI	UN	J	JL-S	EP	0	CT-DI	Ε (
	dav	nıt	den	day	F-1*	đěn	day	ការ៖	dt n	day	711	ds n	dav	nit	din
Percent occurrence	3	5		*	¥	÷	*	*	-	€	10	۶	Ú	0	. 0
AVG thickness Kft	l		.39	1		*	ĺ		+	1		.39	ĺ		*
AVG trap freq GHz	İ		1.1	İ		•	ı		*	l		1.1			
AVG 1: r grd -N/Fft	L		78			¥			*	Ĺ		72			ا_نــا

ELEVATED DUCT SUMMAP/:

PARAMETER	T	EAPL'	r i	J	11-HA	ar _	fil.	PR-JI	Ute	J	JL-SI	P	- 00	T-D!	EC
	day	nit	dån	day	nit	d&n	day	nit	d\$n	ds	*11	dtr	day	nit	<u>ರಕಾ</u>
Percent occurrence	34	16	25	-	*	*	+	*	+	30	32	31	3.5	6	
AYG top ht K^t	1		5.5	i i		•			*	ļ		5.8	Į		5.3
AVG thickness lift	L		.44	<u> </u>		•			-	L		.58	<u> </u>		. 38
AVG trap freq GHZ			. 65			*			ŧ			.32			1.0
AVG lyr grd -N/Kft	İ		56	i		-			•	i		60	l		52
AVS him base Kfr			5.2			*	ĺ		*	l		5.4	ļ		5.0

EMAPORATION DUCT HISTOGRAM IN PERCENT OCCUPPENCE:

FEFCENT OCCURPENCE	- 1	ERRL'	Y	31	111-K	₹	BI	P-J	324	J	JL-Si	EP _	00	CT-DE	3
	1341	011	den	day	nı.	d\$n	day	nit	d&n	da	n.t	den	da	211	ds:
B to 10 Feet	2	1	1	2	1	- 2	2	1	1	2	1	1	1	2	1
10 10 20 Feet	2	3	3	2	3	3	3	4	3	2	4	Э	1	2	2
20 to 10 Feet	4	7	_5	4	6	_ 5	4	ક	6	-\$	Ę	- 5	4	- 6	5
30 10 40 Feet	7	13	:0	8	14	1:	8	14	11	7	12	9	Ė	11	ș-
40 to 50 Feet	11	29	16	11	15	15	11	22	16	11	19	15	10	22	16
50 ° 2 CO Feet	12	_ 22	17	13	28	16	13	21	17	13	23	17	12	23	18
50 to 78 Feet	12	14	13	13	14	13	19	14	12	10	14	12	13	15	14
70 to 80 Feet	10	9	10	11	: 9	11	9	7	ε	Ģ	9	9	11	9	19
SU to 90 Feet	7	_ 4	5	7	4	_ 6	7	_2	_ 5	6	4	5	5	4	5
90 to 100 Feet	4	2	3	4	2	3	5	1	3	5	2		4	2	3
above 180 Feet	30	5	17	24	5	15	30	6	18	33	6	19	33	4	15
Mean Feight Feet	30	56	73	83	57	3~	89	<u>5</u> 5	72	93	58	76	94	55	75

HETEOPOLOGY SUMMARY:

PARAHETEP	YEARL	Y	JA:	i-her	ลคร	-JUN	₹ \L -	EF	601	T-DEC
	day nit	dtn	34. 1	or dan	day n	it dan	day nit	den	Cau .	nii der
. occur EL&SE dets		:		0		0		3	Ī	
% occur 2+ EL dets		1		8	ł	2		2	ĺ	e
AVG station N		372		*	l	•		372	1	371
AVG station -H/Kft		19	l i	+		•		18	ţ	1 '
AVG ifr using Kts	12 11	12	13	12 13	12	:1 11	12 11	11	12	11 12

TPEPS REV 2.1 HISTOFICAL PROPAGATION CONDITIONS STAMPAS

Specified location: 5 00 N 45 00 H (+) INDICATES INSUFFICIENT BATE

Radiosonde source : 82193 1 22 S 48 28 H

Padrosonde station height: 52 Feet

Surface obs source: MSS 5 00 H 45 00 H

FER ENT OCCUPPENCE OF ENHANCED SURFACE TO-SURFACE PADAR ESM COM PANGES:

TENCENT SECON ENTE	<u> </u>								127111						
FREQUENCY	Y	ENRL'	Υ	J	AH-H	AR	A	PR-JI	3N	30	JL-5!	EP	06	CT-98	£ξ
1	day	การ	d&n	day	ni:	dån	day	nıt	den	day	21:	din	day	ការ។	d. ·
100 IIHz	1	8	1	2	8	1	0	9	9	2	е	1	2	8	1
1 GHz	37	7	22	31	5	13	31	6	19	بدد	\$	26	43	8	40
2 GHz	<u>i 58</u>	14	_ 32	48	15	32	44	13	28	53	14	33	54	15	_ 3.¢
6 GHz	88	63	71	82	68	75	78	63	71	73	\$7	67	82	62	
18 GH2	j € 4	91	92	94	94	94	94	93	94	91	57	၉င	95	91	93
20 GHz	97	96	96	. 97	33	97	97	97	97	95	94	94	97	96	. 97

SUPPRCE BASED DUCT SUMMARY:

PARAMETER	Y	ERRL'	7	J	<u> </u>	AR	អ	- R-J	JΝ	J	UL-5	E (?	0.	(7 - D)	EC.
	day	711	dtn	day	nıı	den	dav	ກາເ	cin	Ga:	nit	din	day	nit	₫* n
Fercent occurrence	9	0	5	11	9	5	4	8	Ž	10	ค	5	12	0	- <i>-</i>
AYG thickness Ift	i .		. 34	İ		. 27	l		. 28	1		. 44	l		. 37
846 trap freq GHz	1		.90			. 52	l		2.0			. 43	ļ		.69
AVG Lyr grd -N-rft	L		179			228			173	<u> </u>		123	<u> </u>		197

ELEVATED DUCT SUMMAPY:

PAPAMETER	Y	ARL'	Υ	J	Att-M	ละ	- AF	P-J1	JЙ	[J:	L-SE	P	0.	T-D	EÇ -
	ta.	7112	d&n	وه 🗗	nit	dan	day	nit	der	day	211	dir	C4-	011	C+ n
percent occurrence	22	3	12	16	9	8	8	<u></u>	3	23	10	1?	3.2	0	∠1
AVG top ht Kft			8.0			8.6	ì		8.8			7.4	1		7.1
AYG thickness Kit			. 50	_		.43			. 66	<u> </u>		.50	l		. 41
SVG tran freq GHz			. 44			,44			.34			.55			3
AVG lyn grd -H/Kft			59	ļ		66			57			58	ţ		50
ANG I'm base Ift	i		7.6	į		8.3	ł		8.3			7.9	į		6.8

E-APOPATION DUCT HISTOGRAM IN PERCENT OCCUPPENCE:

PERCENT OCCUPRENCE	YE	ARL.	Y	3	คห-พ	RR	Ai	PR-31	JN.	3,	JL-58	F	U	T-DE	EC
	<u> 43: </u>	nit	der	day	nit	Cin	day	nıı	C\$r.	day	nı:	₫8 ∾	ds.	rit	die
0 to 10 Feet	2	1	2	2	1	2	2	- i	1	2	1	ì	2	1	2
10 to 20 Feet	2	3	2	2	1	1	2	2	21	2	5	4	1	3	2
20 to 30 Feet	3		4	3	4	3	7	_4	4	_ 4		Š	2	<u> 5</u>	4
30 to 40 Feet	; 5	18	8	5	8	7	6	10	3	É	: 1	3	5	16	8
40 to 50 Feet	10	19	1 →	9	17	13	10	28	15	ş	19	14	1€	26	:5
50 to 60 Feet	12	22	17	12	_ 21	16	12	24	18	_1;	2:	16	13	21	
50 10 78 Feet	11	16		13	18	15	12	17	14	ė	:4	12	10	16	- i 3
78 to 88 Feet	10	10	:8	12	13	13	11	10	11	7	6	8	7	10	}
80 1c 90 Feet	7	5	- 5	10	2	8	7	5	ઠ	5	4	4	- 5	4	. 5
90 to 106 Feet	3	2	4	7	4	5	5	2	4	3	2	3	1	ž	
above 100 Feet	₹ ₹3	?	20	25	5	15	30	6	18	43	٤	24	38	8	23
Hean height Feet	95	50	78	96	€1	73	91	59	75	163	53	- 3	181	61	3:

PAPANETER	YSPRLY	JAN-HAR	APP-JUN	:UL-,EP	GCT-DEC
[da- n- dtn	day not den	dau nit dan	das git dan	day nit dan
% occur ELESE dats	1	2	υ	1	,
% occur 2+ Et dets	5	3	1	8	8
HVG station N	388	337	389	387	387
AVG station -H/Kft	22	21	21	21	24
HUG sec and res	14 13 13	17 16 16	14 14 14	10 10 10	13 12 13

Radiosonde station height: 26 Feet

Sunface obs source: MS5 5 00 H 45 00 H

FREQUENCY	Y	EKRL	Υ	3	RN-M	er -	A:	R-J	บห	31	UL-SI	EP	e:	CT-DE	EC
i	day	nit	d&n	day	nit	den	day	n:t	din	day	nit	den	day	n; 3	din
100 HHz	2	0	1	2	- 6	1	3	8		1	6	1	1	ีย	- :
j 1 GH2	38	7	22	32	5	18	37	€	2:	43	8	25	41	8	25
3 GHz	51	14	32	49	15	32	59	13	31	51	14	32	53	15	34
6 GHz	89	63	71	82	68	75	21	63	72	77	57	6.	8:	62	71
10 GPz	94	91	92	94	94	94	94	93	94	91	87	85	95	91	93
20 GHz	97	96	<u>96</u>	97	98	97	97	97	97	95	94	94	97	96	96

3

(+) INDICATES INSUFFICIENT DATA

CHOCGE TOCCH BUCT CHUMOSV.

OFFICE BUSED BOCT :	OF THE F.													
PARAMETER	YEARLY		J	AM-MA	9	R:	R-JI	JH	J	i-51		0.	T-Da	:C
[da nit :	dzn	day	415	¢6n	day	nıı	ರ೭ಌ	day	nı*	dan	day	nit	d&n_
Percent occurrence	12 9	6	17	8	9	13	- 8	7	8	- 9	4	9	0	5
AVG thickness Kft		.35			. 32			. 48			. 36	ĺ		. 34
AVG trap freq GKE		.78			1.0	i		. 36			.72			.72
AVG lyr grd -H/Kft		149			164		_	113	_		177			141

ELEVATED DUCT SUMMAPY:

PARAMETER	Ϋ́	ERRL	Y	J	A <u>N-11</u>	RR	ai	PR-J	JH	J.	Ju-51	P	<u> </u>	T-D!	EC
	da,	nit	dtn	day	nit	ರ೩n	day	nı:	dan	day	nit	d&n	day	nıt	dtn
Percent occurrence	11	9	5	11	0	ε	11	Ø	<u>ء</u>	11	e	6	10	0	5
AVG top ht Kft	1		6.0	1		7.0	ĺ		7.7	i		5.3	ĺ		4.0
AUG thickness Kft			. 36	ļ		. 35			.24	1		. 48	ŀ		. 35
RVG trap freq GHz			1.8			1.2	1		3.1			.57			2.2
AVG fyr grd -H/Kft	l		57			55	1		53	i		69	ļ		51
AUG for base fift	ĺ		5 7	:		€.7	į		7.5	ĺ		5.0	1		3.7

EVAPORATION DUCT HISTOGRAM IN REPCENT OCCUPPENCE:

PEPCENT OCCUPRE	HCE Y	ERSL	7	31	4-14	R.	R	R-JI	JN	J,	JL-5	P	00	. T - DE	C
	day	กาเ	dtn	da	rit	din	day	r::	den	dat	N11	atr	day	ការដ	d\$n
0 10 10 Fee	1 2	1	2	2	1	2	2		1	2		2	2	1	2
10 to 20 Fee	ι 2	3	2	3	1	1	2	2	2	2	5	4	1	3	2
20 to 30 Fee	1 3	5_	_ 4	_ 3	4	3	j 4	4	4	4	?	- 6	2	5	‡
30 to 40 F44	1 3	10	\$	- 5	- 8	7	6	10	8	- 5	11	3	5	18	. 8
40 to 50 Fee	1 10	19	14	i a	17	13	10	20	15	9	19	14	10	20	15
50 10 50 Fee	1 12	22	17	12	21	16	12	24	18	11	21	16	11	21	15
60 to 70 Fee	1 11	16	14	13	18	16	12	17	1.4	و	14	12	10	16	13
70 to 80 Fee	t 18	18	10	12	13	13	11	10	11	7	8	8	9	10	9
80 13 90 Fee	1 7	5	6	10	7	8	7	5	6	5	4	4	6	4	5
90 to 100 Fee	1 5	2	4	7	4	- 5	5	2	4	3			4	2	-
abov€ 180 Fe€	1 33	7	20	25	5	15	39	6	18	48	8	24	38	8	23
hean height Fe	61 45	60	78	86	61	73	91	59	75	183	59	81	101	61	81

PARAMETER	YEAPL'	Y	JA	ห-หกัR		AF	R-JI	JN	Ji	JL-SE	P	00	T-DE	EC
	da nit	den	day	nit di	tr.	day	nıt	dŁn	day	nit	dŧn	day	nit	43 b
. occur EL&SB dcts		1	Γ^{-}		1			0						1
% occur 2+ EL dets		1	1		1			Ü			Ü	1		1
AVG station N		384	l	31	83			385	[382			386
AVG station -N/Kft		20	i		19			19	i		22	l		21
AUG sfc wind I's	14 13	13	17	16	16	14	14	14	10	10	10	13	12	13

TREPS REV 2.1 BISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 12 N 52 42 W (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 81403 5 12 N 52 42 W Radiosonde station height: 26 Feet

Surface obs source: MS5 5 00 N 45 00 H

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

CATEMA OCCORRENCE	<u> </u>	1747	<u> </u>			<u>, , , , , , , , , , , , , , , , , , , </u>					2 2011		•		
FREQUENCY	Y	ERRL'	Y	J	ลห-พ	R.	A	PR-J	ин	31	JL-SE	P	0.	T-DE	EC
	day	nıt	d&n	day	nit	dŁn	day	011	den	dav	nit	_dt	day	nit	d*r
180 MHz	3	2	2	0	3	2	*	*	*	*	*	+	6	8	3 [°]
1 GHz	40	13	26	27	17	22	*	+	*	+	*	•	53	8	31
3 GHz	55	22	38	44	30	37	*	*	*	*	*	±	65	15	48
6 GHz	83	68	76	80	74	77	*	*	*	*	¥	*	27	62	74
10 GHz	95	93	94	94	95	94	*	*	*	*	+	+	96	91	÷ 4
20 GHz	97	97	97	96	98	97	*	*	*	*	+	+	98	96	Ģ.

SUPFACE BASED DUCT SUMMARY:

PARAMETER	Y	ARL	·	Ji	AN-MI	98	A	R-JI	384	J	UL-Si	P	00	T-D	<u> </u>
	day	<u>n</u> 11	dan	day	nit	d <u>&n</u>	day	nit	dŧn	day	<u>n11</u>	ರ ೩೧	day	nit	den
Percent occurrence	:4	13	13	3	22	13	0	17	9	+	+	+	38	0	19
AVG thickness Kft	1		. 17	i		.18	1		8	İ		*	ļ		. 32
AVG trap freq GHz			.42	l		.78	Ī		0			•	1		. 55
RVG lun grd -H kft			131			181	L		•			*	l		٤2

ELEVATED DUCT SUMMAPY:

PARAMETER	Y	ERPL'	Y	J	Ah-H	AR	, AI	PR-JI	UR	J	JL-Si	ĒΡ	ō	CT-DI	EC -
	day	nit	d8n	day	njt	dEn	day	nit	d&n	day	nit	d&n	day	nı*	Go "
Percent occurrence	6	12	9	10	4	7	9	13	7	*	¥	*	8	20	-:4
AVG top ht Kft	ĺ		6.9	[7.1	ĺ		7.2	ſ		+	[6.3
ALG thickness Kft			.49			.76	L		. 36	L		*	L_	_	. 54
AVG trap freq GHz			.85			.11			.83	Γ^-		*			1.5
AVS lyr grd -N/Kft			90	Į		88	ļ		5:	i		4	ļ		130
AUG 1 in base Kft	ĺ		6.6	ĺ		6.7	ĺ		6.9	i		+	i		6.2

EMAFCRATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PEPCENT	OCC	URRENCE	18	HRL.	r	J	ห-หล	AR	A	PR-JI	Jłi	J:	JL-55	P	00	T-DE	C
			dav	nit	dŧn	dav	nit	den	day	nit	dan	day	011	dan	day	nit	₹ .
0 to	10	Feet	2	1	2	2	1	2	2	1	1	2	1	- 2	2	1	~
10 to	20	Feet	2	3	2] 2	1	1] 2	2	2	2	5	4] 1	3	2
20 10	30	Feet	3	5	4	3	4	3	4	4	4	_ 4	7	. 6	_ 2	5	4
30 to	46	Feet	5	19	8	5	8	7	6	10	8	υ.	11	- 8	5	18	3
40 10	50	Feet	10	19	14	و	17	13	10	20	15	9	19	14	10	28	:5
50 10	58	Feet	12	22	17	12	21	16	12	24	iŝ	_11	21	15	1.1	21	15
60 to	70	Feet	11	16	14	13	18	16	12	17	14	ç	14	12	10	10	15
70 to	80	Feet	10	19	19	12	13	13	11	10	11	7	સ	8	9	10	9
80 10	90	Feet	7	5	6	18	_ 7	. 8	7	_ 5	6	_ 5	- 4	4	ϵ	4	_ 5
90 to	100	Feet	5	2	4	7	4	5	5	2	4	3	2	3	1	2	3
above	100	Feet	33	7	20	25	5	15	30	6	18	46	3	24	38	8	. 3
Hean he	igh	t Feet	95	58	78	86	61	73	91	59	75	103	59	81	161	€i	š.

PARAMETER	YE	ARL	Y	J:	าห-ห	AR	ñ	R-J	UH	J	JL-Si	P	CO	T-DE	C
	dan	rit	dtn	day	<u>n</u> 11	dan	day	nit	den	day	nit	dt	ويفات	กาเ	dan
% occur ELtSB dcts			1			8			9			3			2
% occur 2+ EL dcts			1	l		0	i		0			3	i		0
AVG station N			383	l		380	l		385			•	i		384
AVG station -N/Kft			18	l		17	į		17			+			2;
AUG sec wind Kis	14	_13	13	17	16	16	14	14	1-3	10	10	10	.3	12	13

IREPS REV 2.1

trood made accessed to the control

Specified location:

8 58 N

(*) INDICATES INSUFFICIENT DATA

79 36 H Radiosonde source : 78806 8 58 N 79 36 W

Radiosonde station height: 217 Feet Surface obs source: MS9

5 00 H 85 00 H

PERCENT OCCURPENCE OF ENHANCED SUPPOCE-TO-SUPERCE PADAR ESM COM PANCES:

PERSON OCCURRENCE						_	_								
FREQUENCY	l Y	EARL'	Y	J J	IM-KI	R.) AI	PR-JI	111	J	JL-51	EΡ	00	CT-Di	EC
	day	nıt	d&n	day	nit	dŧn	day	nit	dt"	day	nıt	d&n	day	nit	dan
100 MHz	1	- 6	1	1	1	1	1	0	1	1	0	0	9	0	8
1 GHZ	36	12	21	44	20	32	28	12	20	21	6	13	28	9	19
3 GHz	35	15	25	51	25	38	33	15	24	25	_ 8_	16	33	12	23
6 GHz	57	38	48	69	48	59	54	39	47	48	32	40	57	35	46
18 GH≥	34	76	80	85	74	79	82	75	79	83	78	80	85	77	81
28 GHz	92	89	98	92	86	_89	91	88	98	93	91	92	93	90	92

SUPPORE ROSED DUCT SUMMARY

PARAMETER	Y	ARL'	~	J	AH-H	AR	RI RI	R-JI	NN	31	UL-SI	ĒΡ	0	(1-D	EC
	day	nıı	d&n	day	nit	d&n	day	nit	d&n	da,	nit	d&n	day	กาะ	d&n
Percent occurrence	7	4	- 5	7	5	- 6	9	4	7	6	2	4	1	4	4
AVG thickness Kft	İ		. 14	1		. 16			.12			. 16	l		.17
RVG trap freq GHz	ĺ		2.0	ĺ		1.5			1.5	[2.7			2.4
AVG_lyr grd -N/Kft			142	İ		145			127			159			107

ELEVATED DUCT CHMMADY.

PARAMETER	Y	ARL'	Ÿ	3	AN-MI	AR	AI	R-Ji	и	J	JL-SI	ΕP	90	T-DE	EC .
	day	nis	d&n	day	nit	din	day	nıt	dŧn	day	011	dan	day	การ	den
Percent occurrence	30	30	30	51	51	51	24	25	25	17	16	17	26	26	26
AVG top ht Kft			8.6			8.1	ĺ		8.9			7.5			10
AVG thickness Kft	i		.23	L	_	. 35	i		.28			.26			.28
AVG trap freq GHz			. 65			.44			.77			.76			. 65
AVS lyn grd -N/Kfs			61	l		65	l		57	i		58	ŀ		64
AVG lur base Kft	Ŀ		8.4	ĺ		7.8	1		8.7	l		7.3			10

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENC	ΕΥ	EARL	Y	J	AH-H	ar	AF	7R-J	UH	J	JL-SI	P	- 01	T-DE	EC
	day	nit	d&n	day	nit	d&n	day	nıt	ರ೩೧	day	n:t	d&n	day	nit	den
0 to 10 Feet	3	3	3	4	4	4	3	2	3	3	2	2	3	3	3
10 to 20 Feet	5	9	7	5	10	8	7	11	9	5	7	ϵ	4	7	6
20 to 30 Feet	ه ا	13	11	7	12	10	19	13	11	11	13	12	8	14	11
30 to 40 Feet	13	18	16	8	13	11	14	17	15	17	22	19	13	21	17
40 to 50 Feet	! !5	20	17	8	14	11	16	21	រខ	i5	24	22	16	2:	18
50 to 60 Feet	12	14	13	8	12	10	13	15	14	13	16	14	12	14	13
60 to 70 Feet	7	6	- 6	6	7	7	6	6	6	7	5	Ď	8	6	7
70 to 80 Feet	4	3	4	5	4	4	3	3	3	3	3	3	5	3	4
80 to 98 Feet	2	2	2	- 4	3	3	2	1	2	2	1	1	2	1	2
90 to 100 Fee!	2	1	1	2	1	2	1	1	1	1	1	1	2	1	1
above 188 Feet	29	10	19	42	18	38	25	11	18	19	5	12	27	8	17
Mean height Feet	83	55	69	184	66	85	78	55	67	69	48	58	82	51	67

PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit dan	day nit dan	dai rit dan	day nit dan
% occur Et. ASB dcts	2	3	2	1	i
% occur 2+ EL dets	9	16	7	2	7
AVG station N	578	369	381	383	380
AVG station -N/Kft	17	17	17	18	18
AUG sfc wind his	1.4 7,9 8.2	7.7 6.8 7.2	7.5 7.1 7.3	8.9 8.8 9.8	9.4 9.0 9.2

TREPS REV 2.1 #ISTORICAL PROPAGATION CONDITIONS SUMMARY

(*) INDICATES INSUFFICIENT DATE Specified location: 5 08 N 85 00 H

Radiosonde source : 78886 8 58 N 79 36 H

Radiosonde station height: 217 Feet

85 80 W Surface obs source: MS9 5 88 N

PERCENT OCCUPRENCE OF ENHANCED SUPERCE-TO-SUPERCE RADAR/FSM/COM RANGES:

ERCENT OCC	OKE TEE CT	E . (1.)		£, D	OKF	ILE -	0_5	<u> </u>	<u> </u>	TOUR .	2311		6 11111	14.00		
FREQUE	NCY	YEA	RLY	,	Ji	3N-MF	IR 🗌	AF	R-JI	JN .	Ji	ルーち	P	Ú	CT-DE	EC
	σ	ay n	11	dan	day	nit	dŁn	day	nit	dtn	day	nit	dån	day	nit	dt i
199 HH	z	1	8	1	1	1	1	1	В	1	1	8	0	0	0	
1 GH	z	38	12	21	44	20	32	28	12	29	21	6	13	28	9	19
3 GH	z l	35	15	25	51	25	38	33	15	_ 24	_25	8	16	33	12	23
6 GH	=	57	38	48	69	48	59	54	39	47	48	32	40	57	35	45
18 GH	z I	84	76	68	85	74	79	82	75	79	83	78	80	85	77	81
20 GH	z (92	89	90	92	86	89	91	88	98	93	91	92 أ	93	98	92

SOREHIE BUSED DOCK	OUDURE :				
PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit d&n	day nit dan	day nit din	day nit dan	day nit dsn
Percent occurrence	7 4 5	7 5 6	9 4 7	6 2 4	4 4 4
AVG thickness Kft	.14	.16	.12	.10	.17
AYG trap freq GHz	2.0	1.5	1.5	2.7	2.4
AVG lyr grd -N/Kft	142	145	127	159	137

ELEVATED DUCT SUMMA															
PRRAMETER	YI	EARLY	r	J	AH-H	AR	RI	PR-JI	เห	JI	ひしーらに	EP	O:	CT-DE	EC
	day	nit	din	day	nit	din	day	nit	dŧn	day	nit	d&n	day	nıt	din
Percent occurrence	38	38	38	51	51	51	24	25	25	17	16	17	26	26	26
AVG top ht Kft	١.		8.6	l		8.1	i		8.9	l		7.5	ł		10
AVG thickness Kft			.29			. 35	. .		.28			.26			.28
AVG trap freq GHz			.65			.44			.77			.76			.65
AVG lyr grd -N/Kft	l		61	1		65	l		5?			58	l		64
AVG lyr base Kft			8.4	ĺ		7.8	{		8.7	(7.3	[10

EVAPORATION DUCT HIS GIRAN IN PERCENT OCCUPRENCE:

PERCENT	OCCI	JRRENCE	Y	OF J	7	J	RN-MI	RR	A	PR-JU	JH _	JI	UL-SI	EP	00	T-DE	EC .
			day	nit	din	day	nit	din	day	nıt	dtn	day	nit	dan	day	nit	dtn
9 to	10	Feet	3	3	3	4	4	4	3	2	_ 3	3	2	2	3	3	3
18 to	20	Feet	5	9	7	5	19	8	7	11	9	5	7	6	4	7	6
28 10	30	Feet	9	13	11	7	12	_10	10	13	11	11	13	12	8	14	11
30 to	40	Feet	13	18	16	8	13	11	14	17	٠5	17	22	19	13	21	1:
40 to	50	Feet	15	28	17	8	14	11	16	21	18	19	24	22	16	21	18
<u>5</u> 8 to_	60	Feet	12	14	13	8	12	_10	13	15	14	13	16	14	12	14	_1
60 to	78	Feet	7	- 6	- 6	6	7	7	6	6	- 6	7	5	- 6	8	6	_ ;
78 to	63	Feet	4	3	4	5	4	4	3	3	3	3	3	3	5	3	4
80 10	96	Feet	2	2	_2	4	3	3	5	1	2	2	1	1	2	1	_ 3
90 to	100	Feet	2	<u>i</u>	1	2	1	2	_ ī	1	1	1	1	1	2	1	
above	168	Feet	29	10	19	42	18	36	25	11	18	19	5	12	27	8	17
Hean he	i ght	Feet	83	55	69	104	66	85	78	55	67	69	48	58	82	51	67

PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
L	day nit din	day nit dan	day nit din	day nit dan	day nit dan
% occur EL&SB dcts	2	3	2	1	1
% occur 2+ EL dcts	8	16	7	2	7
AVG station N	378	369	381	383	380
AVG station -N/Kft	17	17	17	18	18
AVG sfc wind kts	8.4 7.9 8.2	7.7 6.8 7.2	7.5 7.1 7.3	8.9 8.8 8.8	9.4 9.8 9.2

(*) INDICATES INSUFFICIENT DATA

Specified location:

5 88 N

Radiosonde source: 84008 8 54 S 89 37 H 20 Feet

Radiosonde station height:

5 00 N 95 88 H Surface obs source: MS10

PERCENI (NECOMMENCE	ש אני	NHKNI	י עם.	5UFF (HLE-	,0-26	OKLH		nunk_	E 211	. 011	FRIN	<u> , </u>		
FRE	QUENCY	Y	EARL'	Y	J	AN-M	R.R.	Pi	PR-J	JN	3	UL-51	P	Ö	CT-DE	EC
		day	nit	d&n	day	nit	dŁn	day	nıt	d&n	day	nit	din	day	រារ	d&n
100	HHz	1	0		#	*	*	*	*	±	1	9	1	1	9	0
1	GHz	25	6	16		*	+		*	*	19	4	12	31	8	28
3	GH2	31	9	26	+	*	#	*	*	*	23	8	15	39	18	25
6	GH2	61	40	51	*	+	ź	+	+	*	55	42	48	68	39	54
10	GHz	87	82	25	+	*	*	*	*	+	87	82	84	88	82	85
20	GHz	94	92	93	*	*	*		+	*	94	92	93	93	92	93

CHOCACE BACES BUCT CHMMADY.

PARAMETER		EARL'			AN-M			-R-J			JL-Si			CT-DI	
	day	nıt	d&n	day	nit	der	day	nit	dan	day	nit	d&n	day	rit	<u>ದೆಕಿಗ</u>
Percent occurrence	8	0	4	*	*	4	*	*	*	5	9	3	lí	0	ε
AVG thickness Kft			.22	İ		*	1		*			.34	1		. 10
AVG trap freq GHz			1.3	1		+	l		*			.23	ŀ		2.4
AVG lyr grd -N/Kft	l		316			•	L		*			482			149

FLEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Υ	J	AN-M	AR .	Al	PR-J	UN	JI	JL-SI	EP [1 01	CT-D!	EC
	day	nit	d&n	day	nit	din.	day	212	den	day	nit	32	day	การ	ರಭಾ
Fercent occurrence	16	- 8	8	*	*	*	+	*	*	1:	0	6	20	9	10
AVG top ht Kft	i		5.4			*	1		*	i		4.5			6.3
AVG thickness Kft	}		.79	ļ		*	l		*	ł		.66			.92
AVG trap freq GHz			.20			*			*			.31			.:0
AVG lyr and -N/Kft			67	i		*			*	i		66	ľ		68
AVG lyr base Kft			4.9	İ		#	l		*			4.1	i		5.7

EVAPOPATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT	OCCURRENCE	Y	EARL'	Y	J	M-4A	ar -	. Al	PR-J	UN	3	UL-S	EF	0:	CT-DI	EC
_		day	การ	den	day	nıt	asn	day	การ	d\$n	da	n1:	din	day	nıt	d&n
Ø to	10 Feet	3	3	3	4	5	4	3	2	2	3	3	3	4	3	- 4
10 to	28 Feet	4	6	5	4	9	7	5	- 6	6	3	5	4	3	5	4
20 10	30 Feet	7	11	9	_8	13	10	8	12	10	8	10	9	6	10	3
30 to	40 Feet	10	17	14	8	16	12	11	18	15	14	17	16	8	18	1.3
40 to	50 Feet	15	23	19	9	20	15	18	22	20	28	23	21	14	25	19
50 10	60 Feet	14	17	_ 16	10	13	12	15	19	17	17	26	19	13	17	15
60 to	70 Feet	9	8	9	7	- 5	7	8	9	9	10	10	10	11		:0
70 to	80 Feet	6	4	5	6	3	5	6	5	5	6	4	5	6	4	5
80 10	90 Feet	4	2	3	_5	2	4	_2	_ 2	2	2	2	2	5	1	3
98 to	100 Feet	2	1	1	3	1	2	1	1	1	1	1	1	3	1	2
above	100 Feet	?5	7	16	35	11	23	22	5	14	16	4	:0	28	8	18
Mean he	ight Feet	81	52	_66	95	54	74	76	49	63	68	49	58	85	55	78

PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	dau nit den	day nit den	day nii din	day nit dan	dau nit d'n
% occur EL&SB dcts	1	Ü	8	0	2
% occur 2+ EL dcts	6	9	8	8	9
AVG station H	358		j ,	359	357
AYG station -N/Kft	15			14	15
AVG sfc wind Kts	10 10 10	19 8.5 9.2	2.8 9.5 8.7	11 11 11	11 18 11

HISTORICAL PROPAGATION CONDITIONS SUMMARY

(*) INDICATES INSUFFICIENT DATA

IREPS REV 2.1

Specified location: 5 00 N 105 00 W Radiosonde source : 76723 18 43 N 110 57 W

Radiosonde station height: 125 Feet

Surface obs source: MS11 5 00 N 105 00 N

PERCENT OCCURPENCE OF ENHANCED SUBFACE-TG-SURFACE RADAR/FSK COM RANGES:

	ENCENT OCCORPENCE	<u>, </u>	41111111		JUKF		· •	<u> </u>		IDITE	2311	ÇÜ		<u>uu</u>		
Г	FREQUENCY	Y	EARL	r ——	Ji	H-HE	R	AF	ネール	JH _	Jī	JL-58	P	00	CT-DE	EC
Į		day	nit	d&n	day	nit	din	day	nit	dŁn	day	011	d&n	day	nit	dtn
Γ	100 HHz	12	- 9		14	6	7	9	8	- 5	11	9	- 6	13	o	- 6
1	1 GHz	62	7	35	72	9	40	54	6	38	56	8	32	64	7	35
1	3 GHz	76	11	43	85	12	48	69	11	_40	72	12	42	78	9	43
ſ	6 GHz	89	43	66	94	44	69	87	49	68	87	45	65	90	35	63
1	19 GHz	97	79	88	93	76	87	96	84	90	96	83	89	97	74	86
L	20 GHz	98	89	94	99	88	93	98	93	96	98	96	94	98	86	-2

SURFACE BASED DUCT SUMMARY: PARAMETER YEARLY JAN-KAR RPR-JUN JUL-SEP OCT-DEC day nit dan day nit den day nit den day nit dan dav nit dån Percent occurrence 86 43 75 38 76 38 82 80 48 41 AVG thickness Kft .22 .24 .21 . 17 . 24 .74 AVG trap freq GHz .58 1.1 .68 . 62 8VG lur and -N/Kft 159 163 131 177 128

PARAMETER	YE	ARL'	r	31	AH-MI	R	AF	R-JI	111	- 31	JL-Sa	P	. 00	7-DI	EC
	day	nit	dan	day	nit	d&n	day	nıt	dŁn	day	nit	dan	day	ភាដ	dsn
Percent occurrence	41	8	28	49	9	25	39	8	15	39	9	28	45	8	£3
AVG top ht Kft			3.9			3.7			3.5	i		4.2			4.3
A'G thickness Kft	l		. 54			.43	l _		.51]		.55	1		.66
AVG trap freq GHz			.57			.37			3.4			.29			.18
RVG lyr grd -N/Kft	l		63	ŀ		61	}		71	1		52			64
RVG lyr base kft			3.6	l		3.4	1		3.2	I		3.7	i		3.9

			DUCT HIS															
PERCE	HT	OCC	URRENCE		EARL'			AH-HI		ı.	PR-JI			ÜL-\$1			CT-DE	
				day	រារ	<u>den</u>	day	nit	<u>d&n</u>	day	៣1%	dŁn	day	nii	d&n	day	การ	<u> </u>
- 0	10	10	Feet	3	4	-4	3	4	3	3	2	3	4	4	4	4	6	_ ;
18	to	28	Feet	3	7	5	2	8	5	(3	5	4	2	6	4	5	8	7
28	t G	39	Feet	6	_10	8	_ €	_ 11	9	6	9	_ 7	7	8	7	6	11	3
30	10	40	Feet	10	15	12	7	14	10	9	15	12	12	14	13	11	18	15
48	to	58	Feet	12	21	17	11	19	15	12	21	17	14	23	18	13	21	17
59	10	60_	Feet	12	17	14	10	15	12	14	19	16	13	18	16	12	15	13
60	10	78	Feet	9	11	10	8	11	10	11	13	12	11	10	11	7	8	
70	to	80	Feet	7	5	6	6	6	6	7	6	6	j 7	5	6	8	4	é
80	10	90	Feet	4	2	3	3	2	3	4	3	4	_5	3	4	4	1	2
90	to	100	Feet	3	Į.	2	4	1	3	3	1	2	3	2	2	3	1	
250	ve	100	Feet	29	7	18	40	9	24	28	કં	17	21	8	14	28	7	17
Hear	h	e i ghi	t Feet	88	53	78	102	55	78	86	55	78	76	53	65	85	50	63

SUMMARY:	;					_							
YEARLY	7	Ji	ลห-ห	AR	RI	PR-J	ÜN	Ji	JL-S	EP	CI	T-1:	EC
	din	day	nit	dån	day	nit	dtn	day	nit	dŧn	day	nit	ರೆ ⊀ ಌ.
	30	i		43			15			26	1		37
	5	ļ		2	l		3	l		6			7
İ	366	ı		356	1		361	1		381	ļ.		365
ĺ	28	İ		19	<u>[</u>		20	1		21			:3
11 10	11	_10	10	10	10	10	18	12	11	12	11	10	11
	YEARL' day nit	39 5 366 29	YEARLY Ji day nit din day 30 5 366 20	YERRLY JAN-M day nit dtn day nit 30 5 366 20	YEARLY JAN-MAR day nit din day nit din 30 43 5 23 366 356 20 19	YEARLY JAN-HAR AI day nit din day nit din day 30 43 5 2 366 356 20 19	YERRLY JAN-HAR APR-J day nit dan day nit 30 43 5 2 366 356 20 19	YEARLY JAN-MAR APR-JUN day nit din day nit din day nit din 30 43 15 5 2 3 366 356 361 20 19 20	YEARLY JAN-HAR APR-JUN JI day nit din day nit din day nit din day 30 43 15 5 2 3 366 356 361 20 19 20	YERRLY JAN-HAR APR-JUN JUL-SI day nit dan day nit dan day nit dan day nit 30 43 15 5 2 3 366 356 361 20 19 20	YEARLY JAN-MAR APR-JUN JUL-SEP day nit din day nit din day nit din day nit din 30 43 15 26 5 2 3 6 366 356 361 381 20 19 20 21	YERRLY JAN-HAR APR-JUN JUL-SEP OF Cay not dan day not dan day not dan day not dan day not dan day not dan day not dan day not dan day not dan day not dan day not dan day not dan day not dan day not dan day not dan day not dan day not dan day not dan day not dan day not	YERRLY JAN-HAR APR-JUN JUL-SEP OCT-D: day nit din day nit din day nit din day nit 30 43 15 26 5 2 3 6 366 356 361 381 20 19 20 21

Specified location:

115 00 H 5 00 N

(*) INDICATES INSUFFICIENT DATA

Radiosonde source : 76723 18 43 N 110 57 W

Radiosonde station height: 125 Feet Surface obs source: MS12 5 00 H 115 00 H

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE PADAR ESM COM PANGES:

FREC	DUENCY	YI	EARL'	Y	Ji	BH-MI	1Ř	A	PR-J:	JH	JI	JL-SE	P	Ō	CT-DI	EC
_		day	ការដ	dån	day	nıı	d&n	day	nıt	dan	day	nıt	dan	day	nıt	d&n
100	MHZ	12	0	6	14	9	7	9	θ	5	11	9	6	13	8	6
1	GHZ	63	7	35	72	7	39	56	8	32	60	6	33	64	6	35
3	GHZ	78	19	44	84	12	48	73	12	43	75	10	43	79	8	- 3
6	GHz	91	45	68	93	39	66	89	49	€9	91	50	70	91	41	66
10	GHz	97	83	96	98	77	87	98	85	91	97	86	92	97	82	90
20	GHz	9	93	96	99	91	95	99	92	96	99	94	97	99	94	96

SUPFACE BASED DUCT SUMMARY:

PARAMETER	Y	AFL'	١.	J	BH-HI	AR .	AF	°R~JI	JH	J	JL-35	P	G	CT-Di	EC
	day	nit	dan	day	nit	den	day	nit	den	day	r. 1 *	den	day	การ	dtn
Percent occurrence	80	9	40	36	9	43	75	0	38	7€	0	38	82	- 0	41
AVG thickness Kft			.22			. 24			.21			.17	l		.24
AVG trap freq GHz			.74	l		.58			1.1			.68	ł		.62
AVG lun grd -H/Kft	L	_	150			163			131			177		_	128

FI EVATED DUCT SUMMARY:

PARAHETER	Y	EARL'	7	J	AN-M	AR	- Af	PR-J	บห	30	JL-51	ΕP	Ŏ	T-DI	EC
	day	nit	d&n	day	nit	dan	day	nit	dan	day	011	dan	day	nit	d\$n
Percent occurrence	41	8	20	49	0	25	39	0	15	39	C	20	45	6	23
AVG top ht Kft			3.9	,		3.7	i		3.5	l		4.2	l .		4.3
AVG th-ckness kft	L		.54			.43	ļ		. 51			. 55	l		. 66
AVG trap freq GHz			.57			.37			1.4			.29			.18
AVG lyr grd -H/Kft			63	1		61			71			57	i		64
AVG for base kft			3.6	1		3.4			3.2	I		3.7			3.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PEPCENT OCCURRE	HCE Y	EARL	Y	Ji	ik-m	ìP.	AF	R-JI	Jhi	J	Jt - 51	P	00	T-DE	C
	# Jay	nit	G&n	dav	DIE	den	day	nit	d\$n	dau	nit	d&n	day	711	den
0 20 10 Fee	ι 3	2	3	•	2	3	2	2	2	3	3	3	4	2	3
10 to 20 Fee	: 2	5	3	3	7	5	1	6	3	2	3	2	2	4	3
20 to 30 Fee	<u> </u>	18	8	5	14	9	4	8	_ 6	5	8	7	5	11	8
39 to 40 Fee	, 9	17	13	7	19	13	10	14	12	7	15	11	11	19	15
40 to 50 Fee	t 12	21	16	12	19	16	11	22	16	12	21	1	13	22	17
50 to 60 Fee	<u>. l 1:</u>	18	15	10	14	12	18	18	14	14	22	12	11	19	15
60 to 70 Fee	1 10	10	10	7	9	3	11	12	12	11	11	11	10	9	10
70 to 30 Fee	ι 7	б	6	7	4	5	7	7	7	8	7	9	7	5	6
80 10 90 Fee	ι 6	2	4	5	3	4	8	3	6	6	3	4	5		- 2
90 to 100 Fee	1 4	1	2	2	2	2	4	1	2	5	<u>1</u>	3	•	ម	
aboue 100 Fee	t 31	?	19	39	7	23	31	8	20	27	6	17	28	6	17
Hear height Fe	et 92	54	73	100	- 51	76	94	57	75	86	36	71	87	52	70

CENERAL METERPOLOGY SHMWARY:

PARAMETER	Y	ARL'	Y	Ji	AN-11	AR	AF	R-J	UN	JU	L-S	ρ	0	CT-D	EC
	نڍ ک	P-1-2	din	day	011	dên	day	nit	dtr	day	P1 1	din	day	nıt	don
% occur ELESB dcts			30			43			15			26			37
% occur 2+ EL dcts			5	ĺ		2			3			6	ı		7
AVG station H			366			356			361			381	1		355
AVG station -N/Kft			28			19	ł		20			21	1		18
AUS SEC WIND KIS	11	11	11	10	19	10	10	10	10	13	12	12	12	11	1

HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 00 N 125 00 W (*) INDICATES INSUFFICIENT DATA

Radiosonde source: 76723 18 43 N 110 57 H Radiosonde station height: 125 Feet

IREPS REV 2.1

Surface obs source: HS13 5 88 N 125 88 W

ADDROTTAL BUCK UICTACOAN IN OPPORUT ASSUBBLICE.

PEFCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	Y	EARL'	Y	J	AN-MA	ìR	AI	PR-J	JH	J	L-SI	EP	01	T-DE	C
l	day	nit	den	day	rit	d&n	day	nit	dŁn	day	nit	<u>d&n</u>	day	nıt	Ø£ ~
100 MHz	12	Ø	6	14	- 6	7	9	0	5	11	6	6	13	- 0	
1 GHz	65	7	36	70	6	38	60	9	34	66	7	37	64	4	34
3 GHz	79	_ 11_	45	84	11	47	74	13	43	88	13	46	78	8	43
6 GHz	92	48	78	94	42	68	89	48	68	93	57	75	92	46	-69
18 GHz	98	85	92	98	84	91	97	84	90	98	88	93	98	86	92
20_GHz	99	94	97	99	93	96	99	93	96	166	96	٥ě	99	95	97

SURFACE BASED DUCT SUMMARY: YEARLY PARAMETER JAN-MAR APR-JUH JUL-SEP OCT-DEC day nit dên day nit dên day nit dên day nit d&n day nit dan 75 40 86 43 38 76 38 fercent occurrence! 80 41 .24 .17 .:4 AVG thickness Kft .22 .21 .74 . 58 AVG trap freq GHz 1.1 .68 .62 150 163 131 177 128 AVG lyr and -N/Yft

PARAMETER	Yi	EARL'	Y	3	fiti-M	RR	AI	PR-J	JH.	31	บน-รัเ	EP	00	. T - DI	Ε(
	day	nit	din	day	nit	din	day	nit	dan	dav	nıı	đěn	day	nit	dt n
Percent occurrence	41	0	20	49	0	25	30	0	15	39	- 0	20	45	9	23
AVG top ht Kft	ĺ		3.9	[3.7	ĺ		3.5	ĺ		4.2	ĺ		4.3
RVG thickness Kft	i		. 54	l		.43			.51			.55	ĺ		.66
AVG trap freq GHz			.57			.37			1.4			.29			.18
AVG lyr grd -N/Kft	l		63	1		61			71			57			e 4
AVG lyr base Kft	1		3.6	1		3.4	ł		3.2	ł		3.7			3.9

PERCENT OCCURRENCE	Y	EARL	Y	31	คห-ห	aR .	AI	PR-31	UH	Ji	JL-58	Ρ	U	T-Dê	C
	day	nit	d2n	day	กาเ	d&n	day	n11	dŧn	day	nit	dan	day	nit	dan
0 to 10 Feet	3	- 2	3	4	2	3	3	3	3	2	2	4	3	2	2
10 to 20 Feet	2	3	2	2	4	3	1	4	3	1	2	2	2	3	3
20 to 30 Feet	1 4	9	7	4	10	7	4	16	7	4	7	5	_5	. 9	7
30 to 40 Feet	8	15	11	8	19	13	8	15	12	-6	10	3	9	17	13
40 to 50 Fect	10	22	16	10	23	17	19	21	15	9	22	15	12	23	18
50 to 68 Feet	11	18	15	12	16	14	11	18	14	9	_20	14	14	28	17
60 to 70 Feet	10	11	11	10	10	:0	8	11	9	11	:3	12	10	10	J
70 to 80 Feet	9	?	8	7	5	6	8	6	7	10	11	11	9	7	8
80 to 98 Feet	. 6	3	4	5	3	4	_6	3	5	6	4	5	5	2	<
90 to 180 Feet	3	1	2	3	1	2	4	ī	2	4	2	3	2	1	2
above 100 Feet	35	7	21	35	6	21	37	9	23	39	7	23	28	4	16
Hean height Feet	96	56	76	96	54	75	99	57	78	162	53	82	86	52	69

GENERAL METEOROLOGY	SUMMARY													
PARAMETER	YEARL	7	Ji	AH-H	AR	A:	R-J	UN	71	UL-S	EP	00	T-DE	ΕC
	day nit	dan	day	nit	d&n	day	nit	den	day	nit	din	dav	nii	din
% occur EL&SB dcts		38			43			15			26			37
% occur 2+ EL dcts	J	5	j		2	j		3			ઈ)		,
AVG station N	l	366			356			361	ĺ		381	İ		365
AYG station -H/Kft	l	20	ł		19			20			21	1		18
HYG sfc wind Kis	12 12	12	12	11	12	12	11	11	13	12	12	12	12	12

139 01 H

135 00 H (+) INDICATES INSUFFICIENT DATA

Radiosonde source: 91925 9 49 \$ Radiosonde station height: 167 Feet

Surface obs source: MS14 5 00 N 135 00 H

FREQUENCY		EUST.			AN-MI			R-JI			UL-Si	PANI P		T-DS	EC -
	day	nit	d&n	day	nit	d&n	day	nıt	d&n	day	nit	đặn	day	nit	der
100 MHz	2	В	1	2	0	1	2	0	1	2	8	1	2	0	i
1 GHz	35	5	28	31	5	18	33	3	18	42	8	25	34	4	19
3 GHz	46	9	27	42	9	25	42	7	_ 25	53	13	_33	46	8	27
6 GHz	75	52	63	74	53	64	71	46	59	78	- 5 3	63	76	49	62
10 GHz	91	88	89	91	87	89	89	85	87	92	91	92	92	88	96
28 GH2	95	95	96	96	95	96	95	94	94	96	96	96	97	96	96

SUPPORE RASER DUCT SUMMARY:

PARAMETER	Y	EARL	Y	J	AH-MI	R.	A	R-J	JR	J	UL-S!	P	01	CT-DE	C
	day	nit	dan	day	nit	dŧn	day	nıt	dan	day	กาเ	d&n	day	nıt	<u>dsn</u>
Percent occurrence	16	9	8	18	0	9	16	0	8	17	0	9	13	0	7
AVG thickness Kit	l		. 17			.13			. 14			.22			. 20
AVG trap freg GHz			1.5			1.9	ĺ		1.5			1.3			1.1
AVG lyn grd -N/Kft			120	L		109			114			137			122

FI EVOTED DUCT SHMKARY.

PARAMETER	Y	EARL'	7	J	าห-หต	R.	A	PR-51	JN	Jt	JL-S!	P	00	CT-DI	EC
	day	กาเ	den	day	nit	d&n	day	nit	dan	day	nit	d&n	day	nit	d&n
Percent occurrence	29	0	14	22	8	11	26	8	13	43	8	22	23	0	12
AVG top ht Kft	l		7.2	ł		7.0	1		6.7			7.1	l		7.8
AUG thickness Kft			. 45	Ĺ _		.43			. 50			.47	i		.40
AYG trap freq GHz			.45			.56			.29			.34			.62
AVG lyr 3rd -N/Kft	İ		58	l		57	i		58			59			57
AVG 10r bass Kft	l		6.8	l		6.7	ĺ		6.3			6.8	ĺ		7.5

EVAPORATION DUST HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT	OCCI	JRRENCE	YE	ARLY	7	J	AN-MI	AR .	AF	R-JU	JH	J	JL-3E	P	90	T-DE	C
			dan	nit	d&n	day	nit	dan	day	relt	dsn	day	กาะ	dan	day	nıt	den
8 10	10	Feet	3	1	2	3	1	5	3	2	2	3	1	2	3	1	2
10 10	20	Feet	2	3	3	2	3	3	3	5	4	2	3	2	1	3	2
20 to	30	Feet	6	7	7	6	8	7	7	8	7	_ 5	5	S	6	8	7
38 10	40	Feet	8	15	12	7	16	11	9	16	13	7	14	11	8	16	-;
40 10	50	Feet	11	21	16	13	18	16	11	24	17	9	19	14	10	22	16
50 10	€0	Feet	12	22	17	15	24	19	13	22	17	10	21	16	12	21	16
68 to	70	Feet	11	13	12	12	14	13	11	10	11	10	15	12	10	13	11
70 10	80	Feet	9	7	8	9	7	8	8	ó	7	8	9	8	10	8	9
80 10	90	Feet	6	3	_ 5	6	3	4	5	3	4	7	4	5	7.	2	5
98 to	100	Feet	3	<u></u>	2	4		Z	2	1	2	4	1	2	4	1	<u> </u>
above	100	Feet	30	5	18	26	5	15	28	3	15	37	8	22	30	4	17
Hean h	e i gh	Feet	89	55	72	82	55	68	87	50	69	98	60	75	89	54	71

GENERAL METEOPOLOGY SUNHARY:

PARAMETER	YE	ARL	Y	J.	in-Mi	AP	AS	R-J1	J#I	JU	JL-31	ρ	09	T-DI	EC
	day	nit	d&n	day	n11	den	day	nit	ರಕಿಗ	day	F1 1 2	dsn	day	nit	den
% occur EL&SB dcts			3			3			4			4			3
% occur 2+ EL dcts	İ		3	ĺ		2	i		2	ĺ		4	í		3
AVG station N			370			374	Ì		373			369			355
AVG station -H/Kft			17			18	i		17			17			17
AVG SEC WIND KES	14	13	13	15	15	15	13	12	13	13	12	12	12	13	13

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMAP.

Specified location: 5 00 H 145 00 H (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 91925 9 49 \$ 139 01 W

Radiosonde station height: 167 Feet Surface obs source: MSIS 5 08 N 145 00 H

PEPCENT OCCUPPENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

	P. CORP ENCE	_ 0,,	3-11-11-1		3067		. 0 .							36 3.		
FREG	UENCY	YE	EARL'	Y	J F	3H-K!	₽R	Al	PR-JI	ИL	31	JL-Si	P	00	CT-DE	Ēι
		day	nit	d&n	day	nit	dan	day	ពារ្	d&n	day	nıt	din	day	nıt	den
100	MHZ	2	0	1	2	8	1	2	0	1	2	8	1	2	8	
1	GHz	30	5	18	26	5	15	28	4	16	37	7	22	29	6	17
3	GHZ	43	11	27	40	9	24	39	11	25	48	14	31	45	11	21
6	GHz	74	55	65	73	55	64	71	53	62	77	57	67	76	56	5
13	GHiz	92	88	90	91	88	991	90	98	99	93	86	98	94	88	ج
20	GHz	97	96	96	96	96	96	97	97	97	97	95	96	97	96	٠,

SUPERCE RASED DUCT SUMMARY:

3	SUPFACE BASED DUCT	SUMMI	HRY:													
ſ	PARAMETER	Y	ARL	r	Ji	ลห-หเ	ar 🗀	Al	PR-JI	UN	31	JL-SI	EP -	U	, T - DI	EC
L		day	nit	d&n	day	nit	₫&n	day	nit	<u>d&n</u>	day	กาใ	d&n	day	nit	den i
ſ	Percent occurrence	16	- 8	8	18	9	9	16	9	- 8	17	Ð	- 5	13	0	77
١	AYG thickness Kft	1		.17	l		. 13	l		. 14	1		.22	l		.20
١	AVG trap freq GHz	1		1.5			1.9			1.5			1.3	l		1.1
L	AVG lyr and -NYFt	<u> </u>		120			189			114	<u>L_</u> _		137	i		122

FIEURTED DUCT SUMMARY.

ELEVATED DUCT SUMMAR	?Y:		_	_								_			
PARAMETER	Ϋ́I	EARL	Ÿ	3	คห-หล	AP.	AI	R-JI	JN	30	JL-S	EP -	0	CT-DI	EC.
i	day	nit	d&n	day	nit	d&n	day	nit	d£n	day	nit	dan	day	nit	q,
Percent occurrence	29	6	14	22	- 8	11	26	0	13	43	ø	22	23	0	12
AVG top ht Kft			7.2	1		7.0	l		6.7	1		7.1	1		7.8
AVG thickness Kft			. 45	L	_	43			. 50			.47	l		. 40
AVG trap freq GHz			. 45			.56			.29			.34			.62
RYG lyr grd -N/Kft			58	ŀ		57	ļ		58			59			57
AVG lyr base Kft			6.8			6.7	Ĺ		6.3			6.8			7.5

EFAFORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURPENC		ERRL'			AH-HI			R-31	in.	Ţ.	JL-58	P	69	T-D!	έc
	day	การ	d&n	İday	nit	dan	day	nit	d&n	day	nit	dan	day	nit	d&n
0 to 10 Feet	_ 2	1	2	3	1	2	2	1	$-\frac{1}{1}$	2	1	1	2	2	
10 to 20 Feet	2	3	2	2	2	2	3	2	2	2	4	3	1	Ę	٠.
20 to 30 Feet	5	8	6	6	_ 8	?	7	6	7	4	_9	. 7	3	7	5
30 to 40 Feet	8	12	18	9	13	11	8	16	12	8	11	9	8	11	_ 🥫
40 to 50 Feet	12	20	16	11	28	16	13	22	17	11	18	15	12	21	, -
50 to 60 Feet	14	_ 20	17	15	21	_18	13	19	16	13	18	15	13	21	17
60 to 70 Feet	12	15	14	10	16	13	13	15	14	11	15	13	14	16	15
78 to 88 Feet	9	9	9	11	10	10	9	9	9	8	10	9	8	9	9
80 to 98 Feet	7	4	6	8	3	6	_ 6	5	6		5	5	8	4	ć
90 to 100 Feet	1 4	2	3	5	1	3	3	2	3	4	2	3	6	1	4
above 100 Feet	25	5	15	20	5	12	23	4	13	32	7	19	25	6	15
Hean height Feet	84	57	70	77	55	66	89	55	68	93	59	75	86	57	-1

PARAMETER	YEARLY		JAN-MAR	APR-JUH	JUL-SEP	OCT-DEC
	day n:t d	in day	y nie dani	day nit dan	dav nit dån	day nit din
% occur EL&SB dcts		3	3	4	4	, , , , , , , , , , , , , , , , , , ,
% occur 2+ EL dcts		3	2	2	4	3
AVG station N	3	78	374	373	369	365
AVG station -N/Kft		17	18	17	17	17
AVG afe wind Kis	15 14	14 17	7 16 16	14 14 14	12 11 12	15 14 14

155 00 W (*) INDICATES INSUFFICIENT DATE Specified location: 5 00 N

19 43 N 155 04 W Radiosonde source : 91285 36 Feet

Radiosonde station height:

Surface obs source: MS16 5 00 N 155 00 W

PERCENT OCCURPENCE OF ENHANCED SURFACE-TO-SURFACE PADAP ESM COM PANGES:

The Carrier Court Energy	· -		~~	~~···											
FREQUENCY	Y	EARL'	Y	J	M-HA	BR	A	PR-JI	181	J	UL-S!	EP	Q	CT-DE	EC
1	day	nit	den	day	nıt	d&n	day	nıt	den	day	nit	den	day	nit.	d&n
100 MHz	5	1	3	4	0	2	4	1	2	6	1	4	5	_ 9	2
1 GHz	37	9	23	32	7	20	32	6	19	46	15	31	39	10	24
3 GH2	52	17	34	47	14	31	47	16	28	60	24	42	53	20	37
6 GHz	80	62	71	78	60	69	76	56	66	83	65	74	83	67	
10 GHz	95	91	93	93	89	91	93	91	92	96	89	92	96	93	95
20 CH-	98	97	97	97	96	97	97	97	97	98	95	97	99	98	98

SOKEHUE BUSED DOCT 3	SUMMET.				
PRRAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
ii	day nit d&n	day nit dan	day nit dan	dan nit den	day not den
Percent occurrence	33 4 18	31 3 17	29 4 17	40 5 23	30 3 17
AVG thickness Kft	.36	, 31	.38	.41	.35
AVG trap freq GHz	.73	.91	.75	.60	.67
AVG lyn grd -N/Yft	75	78	91	71	68

FLEVATED BUCT SUMMARY:

PARAMETER	Y !	ERRL	<i>'</i>	3	M-NE	AR	AF	R-JI	ЯK	JI	JL-SE	P	00	T-DE	ĒĊ
	day	nıt	dan	day	nit	d&n	day	nit	dan	dav	2012	けをつ	day	nit	den
Percent occurrence	43	63	53	35	55	45	47	66	57	50	73	62	40	58	49
AVG top ht Kft			7.3	l		7.1	[7.3			7.3	ļ		7.4
AVG thickness Kft			.56			. 55			. 55			.61	1		.52
AVG trap freq GHz			. 22			.22			.23			.19			.25
AVG lyr grd -N/Kft			66	1		68			64			65			€5
AVG for base Ift	<u> </u>		6.9	İ		6.8			7.0	l		6.8	ł		7.0

EVAPORATION DUCT HISTOGRAM IN PEPCENT OCCURPENCE:

PERCENT	OCCURR	ENCE	YE	ARLI	7	7	าห-พ	R.	Ai	PR-JI	JN	[]	JL-SI	Р	01	T-DE	<u>.</u>
			dav	nit	d&n	day	nit	den	day	nit	den	day	การ	dŁn	day	nıt	dtn
9 to	10 Fe	et	2	i	:	2	2	2	2	1	2	1	1	1	1	1	1
10 to	20 Fe	et	2	3	2	2	3	3	2	2	2	2	4	3	2	2	2
28 10	30 Fe	et	4	6	5	5	_ 7	6	5	7	6	4	.7	5	3	5	4
38 to	40 Fe	et	3	11	10	9	13	11	9	14	11	8	10	9	7	9	- 8
40 to	50 Fe	22	12	18	15	11	17	14	14	22	18	12	16	14	1 11	17	14
58 10	60 Fe	<u>e</u> :	14	22	18	15	24	20	14	22	18	14	18	16	12	22	17
60 to	70 Fe	et	13	16	14	15	14	15	11	17	14	10	15	13	14	16	15
70 to	80 Fe	e:	11	9	10	18	3	9	11	9	19	9	9	9	12	11	11
88 10	98 Fe	et	8	5	6	8	4	6	8	3	5	_ 6	5	- 5	8	_ 6	7
98 to	100 F∉	et	5	3	4	4	2	3	4	1	2	5	4	4	5	4	
above	190 Fe	et	23	7	15	19	6	12	19	3	11	29	11	20	25	8	17
Rean he	ight F	eet	81	59	78	74	57	66	75	54	65	89	65	~7	85	62	74

PARAMETER	YE	ARL	•	J	AN-MI	36	AF	R-J	UH	- 3	UL-Si	E P	00	T-DE	EC
	day	nıt	d&n	day	nit	dtn	day	net	dan	da:	P1 7 P	dę n	da:	nit	25 0
% occur EL&SE dcts			8			4			8	:		13			:
% occur 2+ EL dcts			8	i		6			9	į		11	i		7
AVG station N			361	[355			361			365	ł		351
AVG station -N/Kft	i		16			15			16			16	i		16
AVG sfc wind Kis	14_	14	14	16	16	16	15	15	15	12	11	12	14	14	4

TREPS REV 2.1 AISTORICAL PROPAGATION CONDITIONS SUMMAP.

Specified location: 5 00 N 165 00 W (*) INDICATES INSUFFICIENT DATA

Padiosonde source : 91700 2 45 S 171 43 H

Radiosonde station height: 10 Feet Surface obs source: MS17 5 00 N 165 00 W

procest accupance as empores employe-to-empears papas sem can course

PERCENT OCCUPRENCE	OF E	инані	ED '	SURF	ACE-	<u> 10-50</u>	JPFA(E RE	TRACE	Ech	COM	PAN	GES:		
FREQUENCY	Y	EARL'	Υ	Ji	H-MF	3R	AF	R~Jl	JH.	J	JL-SI	P	00	T-DE	C
	day	nıt	děn	day	nit	dan	day	nıt	dan	day	nıı	dan	day	nit	din
198 MHz	12	1	7	14	5	9	13	9	ř	12	9	-6	10	0	5
1 GHz	59	13	3€	60	24	42	58	6	32	61	11	36	54	10	32
3 GHz	74	_ 22	48	77	37	57	74	12	43	76	19	47	70	18	44
6 GHz	91	64	77	92	72	82	91	59	75	91	58	74	85	€6	77
10 GHz	98	91	94	98	94	96	98	91	95	97	86	92	97	93	95
20 GHz	99	96	98	99	98	<u>9</u> 9	100	96	98	99	93	96	99	97	98

SURFACE BASED DUCT SUMMARY:

SOREHEE PHRED DOCT	וחתני	HET:													
PARAMETER	Y	YEARLY			AN-M	ar 🗆	A	PR-JI	HU	J:	اد – ـال	P	00	CT-DI	EC
	day	กเร	den	day	ntt	d&n	day	nit	dtn	day	nit	dan	day	nıt	dtn
Percent occurrence	73	7	40	79	27	53	73	0	37	75	- 0	38	66	. 0	33
AVG th:ckness Kft			.26	ĺ		. 24			.26	ĺ		. 28	İ		.25
HVG trap freq GHz			. 57			.51	l		.51			.56			.67
AVG 'yr ard -N/Yft	Ĺ		97	L		106	<u> </u>		96	L		92			93

ELEVATED BUCT SUMMARY:

PARAMETER		PRL'	-		HH-M			R-11			JL-SE			CT-DI	
	day	nit	d&n	day	nit	<u>d&</u> n	day	nıt	dtn	da:	nit	dan	day	nit	den
Percent occurrence	23	0	11	17	0	9	17	0	Ģ	30	છે	15	26	0	13
AVG top ht Kft			5.2	ł		5.1			5.1			5.5	i .		5.8
AVG thickness Kft			.42	1		.41	j		. 26			.42	1		.47
AVG trap freq GHz			.59	1		.78			.64			.42			.47
AVG lyn grd -N/Kft			57			58	i		55			57	1		60
AVG lyr base Kft			4.9	(4.8	ĺ		4.8	i		5.2	ĺ		4. *

EVAPOPATION BUCK HISTOGRAM IN REPOENT OCCURRENCE:

E-MEDERATION DOCT															
FERCENT OCCURREN	E¦ Y	EAPL	۲	J 3	AN-H	าล	A A F	R-J1	JH	J1	UL-SE	EP	00	T-DE	EC
	g ay	nit	dta	day	กาะ	d&n	day	nıt	dèn	da	r:	はなり	day	n't	d:
0 to 10 Feet	1 - 1	1	1	1	1	ī	1	1	1	2		1	1	1	1
10 to 20 Feet	Ja	3	2] 2	2	2	1	2	2	2	5	4	1	2	2
20_to 30_Feet	5	5	. 5	5	5	5	4	- 5	5	5	7	s	5	4	5
30 to 40 Feet	1 8	11	19	9	12	11	9	13	11	7	10	9	ď	9	8
40 to 50 Feet	13	18	16	15	18	16	13	20	16	13	13	15	13	13	: 5
50_10 60 Feet	15	19	17	15	19	17	17	21	19	14	18	16	13	19	16
60 to 70 Feet	13	15	14	12	15	14	15	16	16	12	12	12	14	18	; :
70 to 80 Feec	10	10	10	11	10	11	9	18	18	8	9	ક	10	11	11
80 to 90 Feet	7	5	6	8	6	7	7	4	- 5	7	4	6	6	5	6
90 to 100 Feet	1	3	4	4	4	4	4	2	3	4	3	3	5	3	4
above 100 Feet	22	9	16	18	8	13	20	6	13	26	11	19	25	10	18
Hean height fee	i 80	62	71	74	62	68	78	58	68	85	€4	74	84	65	75

GENERAL RETEOPOLOGY SURMARY:

PARAMETEP	YEARL	Υ .	JA	N-MAF	×	AF	R-JI	JN	J	L-S!	ξP	01	CT-DI	EC
	day nit	_dtr	dau	nit c	1&n	day	410	din	day	nit	d&n	day	กาเ	dan
# occur EL&SB dcts		14			11			13			17			15
% occur 2+ EL dcts		2			1			1	Ì		3	l		2
HVG station N		373		3	374			376			375	•		ઉદેઇ
RVG station -N/Kft		23	ŀ		24			23			24	ļ		23
AVG sfc wind Yts	14 13	13	16	16	16	14	13	14	12	11	11	13	iź	13

TREPS REV 2.1 MISTOFICAL PROPAGATION COMMITTIONS SUMMARY

Specified location: 5 00 N 175 00 W (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 91700 2 46 S 171 43 H

Radiosonde station height: 18 Feet

Surface obs source: MS18 5 00 N 175 00 H

FERSENT SCOURPENCE OF ENHANCED SUPFACE-TO-SURFACE RADAR FOR SOM PANCES

PERCENT CLCORPENCE	ÿF E	инни	FFD.	SUPF	HLE-	10-51	IKE HI	E M	HUHP	£2"	: 04	PHN	<u> </u>		
FREQUENCY	Y	EUBL.	Y	J	N-HA	RR T	A	₹-JI	JH	31	JL-Si	EP	C	CT-DE	E (
L	day	nit	din	day	nıt	d&n	day	nit	dan	day	nit	d&n	day	nit	dtn
189 MHz	12	1	7	14	5	9	13	8	6	12	9	6	18	- 6	5
1 GHz	¦ €2	15	39	67	25	46	68	8	34	64	13	38	59	14	37
3 GHz	76	24	50	81	39	60	74	13	44	77	21	49	73	23	48
6 GHZ	90	64	77	93	75	-84	90	57	74	96	58	74	89	64	6
10 GHz	97	89	93	97	93	95	97	87	92	97	85	91	96	98	93
20 GHz	98	. 95	96	99	97	98	98	94	96	99	92	95	98	96	97

SUPPRICE PASED DUCT SUMMARY:

PARAMETER	YE	ARL'	Y	31	AH-HI	aR	AF	R-J	JH	JI	JL-SE	P	00	T-DI	C
l . _	day	717 2	d&n	day	nit	d&n	day	nıt	d&n	day	nıt	din	Jay	nit	di i
Percent occurrence	73	7	48	79	2?	53	73	0	37	75	0	38	66	0	23
AYG thickness kft			. 26	İ		.24	l		.26			.28			. 25
AVG trap freq GHz			.57	1		.51			.51			.56	l		.69
AVG lyr and -H/rft			97			106	I		96			92	L		93

ELEVATED DUCT SUMMARY:

PARAMETEP	Y	EARL'	Y	J	AH-M	AR .	Ai	マネーブし	JN	31	JL-SI	P	Ú	T-DE	EC -
	day	nit	d&r.	day	การ	dŁn	day	nıı	d\$n	da.	<u>n1*</u>	den	dav	nıt	den
Percent occurrence	23	0	11	17	0	9	17	0		30	8	15	26	- 8	13
AVG top ht Kft			5.2			5.1			5.1			5.5	l		5.0
AUG thickness kft		_	. 42			.41			.36			. 42			,47
AuG trap freq GHz			.59			.78			.64			.42			.53
AVG lun gnd -N/Kft	ļ		57			58			55	ļ		57			50
PVG 1:r base Kft	I		4.9	i		4.8			4.8	Ī		5.2	l		4.7

EVAPORATION BUCT HISTOGRAM IN PEPCENT OCCUPPENCE:

PERCENT OCCURPENCE	Y	EARL	•	J	H-KA	9.8	A	Ř-J	JH .	J	UL-5	EΡ	01	CT-DE	EC
	43	nıt	d&n	day	111	den	day	r: 1 t	den	dav	211	dt:	day	nit	d&n
0 to 10 Feet	3	2	3	4	2	3	3	<u> </u>	2	2	2	2	4	2	3
10 to 20 Feet	3	4	3	3	3	3	3	4	3	4	5	4	4	3	3
20 to 30 Feet	5	6	5	L →	6	5	5	7	6	6	7	6	4	6	5
30 to 40 Feet	7	10	9	6	ò	8	3	11	9	?	10	8	6	18	9
40 to 50 Feet	11	16	14	10	13	12	13	19	16	13	17	15	18	16	13
50 to 60 Feet	11	17	14	10	16	13	14	20	17	10	16	13	11	16	13
60 to 70 Fest	111	15	13	11	19	15	12	14	13	11	:2	12	9	16	12
70 to 80 Feet	9	19	10	9	12	10	10	10	10	8	8	ક	10	19	16
80 10 90 Feet	6	6	6	_ 8	8	8	5	3	4	6	6	6	6	6	5
50 'o 100 Feet	1 4	3	3	4	3	4	4	2	3	3	3	3	4	3	3
at - '00 Feet	30	11	20	31	9	28	23	8	15	31	13	22	34	14	24
Yean height Feet	38	65	76	80	64	76	81	66	76	90	65	77	94	78	82

PARAMETER	758	RLi	JF	111-M	AR .	HF	R-J	UH.	3	uL-Si	EP	00	T-DI	C
	dan n	ıı d≎n	day	1111	d\$n	day	nit	den	đa,	nii	dan	day	1.1 t	dt ·
. occur ELtSB dcts		14			11			13			17			-15
% occur 2+ EL dcts		2	i		1			1			3			2
AVG station N		373			374			376			375			368
RVG station -N/Kft		23			24	ŀ		23			24	l		23
AVG sfc wind kts	12	12 12	14	15	14	13	12	12	11	:0	16	12	11	12

TREPS REV 2.1 HISTOFICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 7 04 N 171 22 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 91376 7 84 N 171 22 E

Radiosonde station height: 10 Feet

Surface obs source: MSI9 5 00 N 175 00 E

PER ENT OCCUPRENCE	<u>ur e</u>	инни	FD.	SURF	KLE-	-0-20	JK F HI	. E_ YI	HUME	_E3n	LUP	PHI	7525		
FREQUENCY	Y	EARL'	7	J1	M-HA	R.	AF	7 <u>R</u> -JI	JH	JI	JL-SI	Р	01	CT-DE	ΕĊ
	day	nit	d&n	day	การ	den	day	กาเ	d&n	day	nıt	dan	cay	nit	ರಕಗ
180 MHz	9	5	5	9	1	- 5	8	2	5	9	1	- 5	S	2	5
1 GHz	52	17	35	52	15	33	58	16	33	52	16	34	56	20	38
3 GHz	62	24	43	63	24	44	59	23	41	62	21	4.	6€	29	47
6 GHz	79	58	69	79	59	69	78	57	67	79	5ã	56	81	64	73
10 GHz	89	81	85	88	88	84	89	82	86	89	77	83	91	86	89
_ 20 GHz	93	_99	91	93	90	91	93	91	92	92	_85	89	95	94	94

SUPPORE BASED BUCT SUMMARY.

PARAMETER	YEARL'	,	1	M-ME	ac	7 05	R-Ji	111	7	JL-SI	E D	0	CT-DS	<u> </u>
		•												
	day nit	a n	gay	nit	gen	247	717	awn	day	nyt	g&n	Cay	u.r	<u>gzn</u>
Percent occurrence	44 8	25	45	7	26	40	9	25	4€	7	27	44	9	÷.
AYG thickness Kft		. 34			.33	Ì		. 36			.33	Ì		. 33
AVG trap freq GHz		. 40	ŀ		. 40			.38			.37	!		. 45
AVG lyr grd -N/Kft		88			85			84			97			86

FLEVATED DUCT SUMMARY:

PARPHETER	Y	ERR.	Υ	JI	AM-KI	AR .	A	P-J;	JH	Ji	JL-SE	EP -	00	T-DE	C
	day	nit	ರ೭೫	day	211	d&n	day	nit	d&n	da	211	d&n	day	nıt	di n
Percent securrence	22	25	23	31	36	34	20	19	20	14	18	16	21	25	-2:
AVG top ht Kft			6.6	l		7.8			6.2	ļ		5.8			7.5
AVG thickness Kft			.48	j		, 49	;		. 35			. 40	ł		. 36
AVG trap freq GHz			.48			.33			.55			.48			.57
AVG lun grd -H/Yft			59	i		59	i		59			58			59
AVG for base ift			6.3			6.6	l		5.9			5.5			7.2

EMAPORATION DUCT HISTOGRAM IN PERCENT OCCUPPENCE:

PERCENT OCC	UPRENCE	Y	EAPL	Y	J	AH-H	AR	A	PP-Ji	in .	J	UL-5	EP	91	CT-DI	EC
	_	day	nit	d&n	day	nit	dtn	day	nıt	der	day	nit	ರಹಿಗ	day	nit	den
0 to 13	Feet	7	- 5	6	6	2	4	8	4	6	9	- 9	7	5		3
10 to 20	Feet	5	6	6	7	8	7	4	5	5	િંદ	?	6	4	4	-
20 to 30	Feet	6	_ 9	8	_8	16	۰	_ 6	9	8	5	à	7	ě	8	:
30 to 40	Feet	7	11	9	7	10	3	9	12	10	7	13	16	- 5	:0	- 3
40 to 50	Feet	10	14	12	18	13	11	10	16	13	10	13	11	11	14	12
50 to 60	Fee:	18	16	13	٩	14	11	_ 9	16	13	10	. :7	13	11	17	. 4
68 to 70	Feei	9	12	11	8	12	10	11	13	12	12	16	11	7	12	9
78 to 89	Feet	7	9	8	7	11	9	7	8	8	6	6	é	ő	9	7
SO to 90	Feet	4	_ 4	_4	6	5	5	Ĺ.	3	3	4	3	3	4	5	4
98 to 100	Feet	3	3	3	4		- 4	3	3	3	2	2	2	3	3	3
above 188	Feet	31	12	21	28	10	19	29	10	19	28	11	20	37	15	26
Hear heigh	r Fees	86	61	74	81	61	71	83	59	71	81	58	70	98	68	83

PAPAMETER	YEAPLY	JAN-HAP	APR-JUN	JUL-SEP	OCT-DEC
	dau nit den	dau nit dtr	dau nit den	dau nit Jin	day nit din
% occur EL&SB dcts	5	8	4	4	4
% occur 2+ EL dcts	4	8	2	2	5
AVG station N	384	381	387	394	394
RVG station -H/Kft	19	19	28	19	: 9
AUG afc wind his	11 11 11	12 12 12	12 12 12	10 9 2 9,4	10 10 :0

HISTORICAL PROPAGRATION CONDITIONS SUMMARY

172 55 E (+) INDICATES INSUFFICIENT DATE 1 21 N Specified location: Radiosonde source : 91610 1 21 N 172 55 E Radiosonde station height: 7 Feet

5 00 N 175 00 E Surface obs source: MS19

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SUPERCE RADAP ESM-LOM PANGES:

FREQUENCY	Y	EARL'	ľ	5	RII-KI	R.	Ři	PR-JU	ИL	J	ルーち	P	01	CT-DI	EC
	day	nıt	dan	day	nıt	din	day	nit	d&n	day	ni:	dan	day	nit	dan
100 MHz	3	9	1	1	Ð	1	3	9	1	3	0	2	4	8	2
1 GHz	38	12	25	35	10	21	37	10	23	38	11	24	47	15	31
3 GHz	48	18	33	42	13	31	45	15	31	47	16	31	56	23	40
6 GHz	78	55	62	65	56	61	78	53	61	71	49	66	76	61	€8
10 GHz	85	89	82	81	79	88	85	89	83	84	75	89	89	85	87
20 GHz	98	89	90	88	85	89	98	90	98	89	84	86	93	93	93

IREPS REV 2.1

PARAMETER	Y	EARL'	Y	31	AH-HI	₽₽	AF	アーチ	Jh		ルーショ	F	CI	LT-DI	EC
	day	nit	din	day	011	den	day	nit	den	day	DIT	dan	day	nit	d&n
Percent occurrence	21	8	11	9	0	5	19	0	10	25	ō	13	31	8	16
AVG thickness Kft			.33			. 23	l		.43	ŀ		.33			.32
AVG trap freq GHz			.84			. 88	ŀ		. 61			.82	l		1.1
AVG lyn and -N/Kft	1		83	ŀ		90			79			84			199

FLEVATER RUCT SUNNARY:

PARAMETER	Υ:	EARL	Y	J	BH-MA	AR.	A	R-JI	JH.	Ji	JL-SI	EP	01	CT-D!	F.C
	day	nit	den	day	nıt	d&n	day	nit	den	day	nit	ರಕ್ಕಿಗ	Cay.	nit	d\$ ··
Percent occurrence	22	8	11	36	Θ	18	12		- 6	12	8	€	29	e	15
AVG top ht Kft	i		4.2			3.3	ŧ		4.9	i		4.4	ı		4.2
AVG thickness Kft			. 44			.56	Ĺ		.33	ı		.47			.38
AVG trap freq GHz			1.4			1.9			3.0			.59			1.0
AVG lyr grd -N/Kft	ı		58	I		68	l		51	l		58	!		54
AVG lur base Kft	ļ		3.9	l		3.0	i		4.5	l		4.0			3.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PERCENT	900	URRENCE	Υl	ARL	7	J	ก-หล	AR .	RI	PR-J	jN	J	UL-SI	EP	0	CT-DE	:C
			day	nit	d\$n	day	nit	dtn	day	nit	din	day	nit	den	day	nit	dtn
8 :0	18	Feet	7	5	ប៊	6	2	4	8	4	6	9	9	9	5	2	3
18 to	28	Feet	5	6	6	7	8	7	4	5	5	6	7	6	4	4	4
28 10	30	Feet	6	9	8	8	18	9	6	9	8	5	9	_ 7	6	8	_ 7
30 to	40	Feet	7	11	9	7	10	8	9	12	10	-	13	10	- 5	10	§
40 to	50	Feet	10	14	12	16	13	11	19	16	13	10	13	11	11	14	12
50 to	60	Feet	10	16	13	9	14	11	9	16	12	18	17	13	11	17	14
68 10	70	Feet	9	12	11	8	12	:0	11	13	12	:2	10	11	7	12	- 5
70 to	30	Feet	7	9	8	7	31	9	7	8	8	ε	6	6	6	9	7
88 10	98	Feet	4	4	4	6	5	_ 5	4	3	3	4	3	3	4	5	_ 4
90 10	100	Feet	3	3	3	4	4	4	3	3	3	2	2	2	3	3	3
above	100	Feet	31	12	21	28	18	19	29	10	19	28	11	26	37	15	is
Hean he	e i gh	t Feet	86	61	74	ខរ	61	71	83	59	71	81	58	78	98	68	83

YEARL	Y	JF	H-HE	R.	AF	P-J	JH .	J	ひとーらり	EP	OC.	T-DE	C
day ni:	din	day	0:1	din	day	n11	den	da:	n: 1	dtn	day	nit	drr
I	2			6			1			1			7
	2	1		2			3			8	ļ		5
l	389	ļ		370			386			382			382
ł	20	j		18	i		21			21	Ì		21
11 11	11	12	12	12	12	12	12	10	9.2	9.4	10	10	10
	day nit	2 2 389	day nit dan day 2 2 2 389	day nit dan day nit 2 2 2 389	day ni: dan day ni: dan 2 0 2 2 2 2 389 370	day nit dan day nit dan 2 0 2 2 389 370	day nit din day nit din day nit 2 0 2 2 389 370	day nit dan day nit dan day nit dan 2 0 1 2 2 3 389 370 386	day nit dtn day nit dtn day nit dtn da: 2	day nit din day nit din day nit din da; nit 2	day nit dan day nit dan day nit dan day nit dan 1 1 1 2 0 1 1 2 2 3 0 389 370 386 382	day not den day	day nit din day nit din day nit din da; nit din day nit 2

IREPS REV 2.1

Specified location:

8 43 N 167 43 E

(*) INDICATES INSUFFICIENT DATA

Radiosonde source: 91366 8 43 N

167 43 E

Radiosonde station height: Surface obs source: MS20

13 Feet

5 00 H 165 00 E

LELCEN, OCCORREGICE (3F E	MANNE	LEN :	SURFI	7.5	<u> </u>	76 5 U.	<u>. C.</u> R:	nunr	<u> </u>	CON	F 1711	<u> , </u>		
FREQUENCY	Y	ERRL	Y	31	RN-M	R.	A	R-J	บห	J	JL-SI	P	ő	CT-DE	EC
1	day	nit	dŁn	day	nıt	d&n	day	nı t	dan	day	<u>r:t</u>	dan	day	nit	dan
198 HHz	4	1	2	4	1	3	4	1	3	3	0	2	4	1	2
1 GHz	40	16	25	39	11	25	48	9	24	38	9	24	43	11	٠. ٠
3 GHz	52	18	35	53	_ 26	39	_51	15	_33	47	14	31	_56	_18	3.7
6 GHz	78	62	70	79	72	75	78	37	67	76	55	65	81	63	72
10 GHz	91	88	98	98	92	91	91	87	89	91	85	88	63	88	91
20 GHz	95	95	95	94	96	95	95	93	94	95	94	95	97	95	96

SUPFACE BASED DUCT SUMMARY:

PARAMETER	YI	EARL	Υ	J	AN-MI	RR	AI	PR-JI	UH _	3:	ひと-51	EP.	01	T-DI	EC
	day	nit	ರ್ಷಗ	day	Dit	dan	day	mit	dan	day	nit	den	day	nit	dtn
Percent occurrence	24	- 5	14	23	8	16	25	3	14	22	3	13	26	4	15
RVG thickness Kft	•		.38	[. 35	ĺ		.48	1		. 32	ſ		.36
AVG trap freg GHz	i		.63	i		. 57	i		.46	l		.76	1		.: 1
AVG lyr and -N/Yft	1		98	ļ		85	í		184	i		113	ľ		91

ELEVATED DUCT SUMMAPY:

PARAMETER	Y	ERRL	Y	J	AN-M	AR	A:	PR-JI	JN	J	JL-SI	ΕP	C.	, T-Di	ΕĆ
	day	nit	dån	day	nit	dŁn	day	nit	d&n	day	nit	_d&n	day	การ	din
Percent occurrence	28	28	24	36	48	42	16	24	20		16	13	19	22	- 1
AVG top ht Kft			6.2			6.8	ł		6.2	l		6.8	j		5.9
AVG thickness Kft			. 45			. 52			.45			.4:			. 43
AVG trap freq GHz			.42			.32			.39			.51			.47
RVG lyr grd -N/Kft			57	İ		58			50			54	1		57
AVG lyr base Yft			5.9	i		6.4	_		5.9			5.7	1		5.5

ELAPARATION BUCK UTCZOCROW IN REPORT OCCURRENCE.

EANLOWNITON DOC! W	<u>. ၁ () ()</u>	K Litt	114 P	<u> EFUE:</u>	14 · U	LCOP	FENLE	<u> </u>							
PERCENT OCCURRENCE	. 7	ERRL	Y	31	RH-M	RR	AF	P-J	JH.	J	UL-5!	EP	01	1-DE	Ĭ.
	day	nit	dan	day	n11	d&n	day	nit	din	dav	nit	dån	Cay	nıt	dt n
0 to 10 Feet	4	2	_3	3	2	5	4	2	3	4	2	3	4	2	3
10 to 30 Feet	3	4	3	3	2	3	2	4	3	j 3	4	4	3	4	3
20 to 30 Feet	<u>; 5</u>	7	_ €	5	_ 5	_ 5	_ 5	6	_ 6	5	10	ક	4	7	5
38 to 40 Feet	5	10	8	6		7	6	10	8	7	12	9	6	10	8
40 to 50 Feet	10	17	14	8	13	11	11	21	16	11	19	15	Ģ	16	12
50 10 60 Feet	12	26	16	_ 9	17	13	13	28	16	14	22	18	13	21	17
50 to 70 Feet	11	15	13	11	17	14	12	14	13	12	13	13	11	17	14
70 to 80 Feet	9	10	9	1:	15	13	9	8	9	7	7	7	3	ė,	
88 tc 90 Feet	6	5	6	8	9	9	6	4	5	4	3	4	7	5	5
90 to 100 Feet	1 4	3	3	5	5	5	4	2	3	3	1	2	1	2	3
above 108 Feet	39	7	19	29	7	:8	28	7	17	30	7	18	33	9	21
Hean height Feet	89	60	74	86	64	75	86	57	72	88	57	73	94	61	73

PARAMETER	YEARLY	Ţ	JAN-H	AR.	APP-J	UH	JUL-SEP	OCT-DEC
	day nit di	n	day nit	dan	day nit	din	da; nii dir	day nit don
% occur EL&SB dcts		2		4		1	9	3
% occur 2+ EL dcts		4		9		3	1	3
AVG station N	31	3		377		385	385	3:3
AVG station -N/Kft		9		19	ĺ	19	19	19
AVG afc used kts	11 11 :	1	14 14	14	12 12	12	9.4 9.1 9.2	10 11 11

Specified location: 6 58 N 158 13 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 91348 6 58 N 158 13 E Radiosonde station height: 128 Feet

Radiosonde station height: 128 Feet Surface obs source: MS21 5 00 N 155 00 E

PERCENT OCCUPRENCE OF ENHANCED SUBFACE-TO-SUPERCE RADAR ESK COM RANGES:

FREG	UENCY	YI	EARL	Y	Jf	H-H	R	AI	R-JI	JH	J	JL~SI	EP	00	DI	EC
		day	nit	dån	day	nit	din	day	nit	dan	da:	nit	din	dav	nit	dtn
100	HHz	5	2	4	6	2	4	5	2	4	5	2	4	٠,	1	3
1	GHz	52	15	34	52	16	34	51	16	33	54	16	35	52	12	35
3	GHz	64	23	44	65	27	46	63	24	43	65	23	44	64	20	42
6	GHz	85	62	74	86	68	77	84	60	72	85	59	72	86	61	73
18	GHz	95	88	92	95	98	93	95	88	92	95	87	91	96	88	92
20	GH2	3e i	95	96	98	95	96	98	94	96	98	95	97	98	95	96

SURFACE BASED DUCT SUMMARY:

PARAMETER		EARL	Υ	J	AH-M	R.	A	R-J	JN I	JI	UL-Si	Ρ	0	T-D	EC .
	day	nit	dŁn	day	nit	d&n	day	nit	din	day	nıt	dan	day	nit	dta
Percent occurrence	47	16	31	48	17	33	46	19	33	46	16	31	46	12	_5,,
AYG thickness Kft	1		. 17	1		. 16	l		. 18	ì		.16	l		.17
AVG trap freq GHz	ŀ		1.2	ì		1.2	1		1.2	i		1.2	i		1.3
AVG lyr grd -N/Kft			94			91	<u> </u>		95			97			93

ELEVATED DUCT SUMMARY:

PARAMETER	Y	ERRL'	Υ	31	an-M	R.	AF.	PR-J	UH	Jŧ	JL-SI	EΡ	00	CT-DI	EC _
	day	nit	dtn	day	nit	dan	day	nit	dŧn	day	กาา	din	day	nit	dan
Percent occurrence	20	28	20	39	37	34	14	11	13	13	10	12	22	22	22
AVG top ht Kft	1		5.6	l		6.2	•		5. 3	l		4.3	i		5.9
AVG thickness Kft	L .		. 44	.		. 57	i		.37	i		. 40			.43
AVG trap freq GHz	i		.41			.22			.53			.50			.39
AVG lyr grd -N/Kft	ļ		59	i .		63			59			58			57
AVG lyr base Kft			5.2	ı		5.8	l		5.6	l		4.0			5.6

EMAPORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

FERCENT	OCCI	BEHCE	7:	ERRL	1	j	H-48	AR _	9:	R-J!	J24	J.	UL ~Si	Ε̈́₽	0.0	T-DE	EC
			day	nit	der	day	niz	d£n	day	nıt	din	day	P1 1	dan	da	nit	atr.
8 t č	10	Feet	2	1	1	2	1	2	2	1	2	1	1	1	2		2
10 to	28	Feet	2	5	3	2	4	3	1	5	3	2	6	4	2	5	3
20 10	38	Feet	4	7	6	4	- 6	5	4	7	5	4	9	7	ј з	8	5
38 to	40	Feet	6	11	8	6	10	8	6	12	9	7	12	10	6	16	8
40 to	50	Feet	10	19	14	9	16	12	11	21	16	9	28	14	9	19	14
50 : 0	€0	Feet	12	21	16	10	19	15	14	22	18	11	20	15	13	23	18
60 10	70	Feet	19	14	12	11	15	13	10	13	11	10	14	12	18	13	12
70 to	88	Feet	7	8	7	8	11	9	6	6	6	6	5	6	¦ 7	8	8
80 to	98	Feet	5	4	5	6	6	6	6	4	5	4	3	4	6	4	5
90 to	100	Feet	3	2	2	4	3	4	3	2	2	3	1	2	3	2	2
above	100	Feet	39	8	24	38	9	23	37	8	23	42	9	26	39	7	23
Hean he	1gh	Feet	162	59	81	100	62	81	100	58	79	106	59	82	183	57	53

PARAMETER	YE	ARL	7	Ji	84-H	BR T	AF	- R-J	UN	J	JL-S	EΡ	00	CT-DE	C
	day	nit	din	day	1112	dta	day	nıt	dŧn	day	F-12	dtr.	day	7:1	dta
% occur EL&SB dcts			6			11			5			3			
% occur 2+ EL dcts			5	l		11	l		2	Į.		1	1		6
AVG station H			382	l		378	l		384			383	1		383
AVG station -H/Kft			19	l		18			19			19	!		19
AUG sec used tes	10	10	18	12	12	12	18	18	10	8.9	8.7	8.6	10	18	10

PISTORICAL PROPAGAT. . CONDITIONS SUMMAR, IREPS REV 2.1

151 51 E (*) INDICATES INSUFFICIENT DATA Specified location: 7 28 N

Radiosonde source : 91334 7 28 N 151 51 E

Radiosonde station height: 10 Feet

155 00 E Surface obs source: MS21 5 00 H

PERCENT GCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAP ESH LOM RANGES:

FREQUENCY	Ŷ	ERRL'	Y	3	AH-H	BR	RI	PR-JI	UN	JI	JL-SI	EP	00	CT-DI	ĒL
1	day	nit	dŁn	day	nit	dan	day	nit	dan	dav	nit	den	day	nit	d:
180 MHz	5	1	3	6	1	3	4	1	3	5	1	3	6	1	4
1 GHz	51	12	32	52	11	32	47	11	29	53	13	33	53	11	32
3 GHz	-81	19	48	_63	_21	42	57	18	37	62	19	49	64	18	41
6 GHz	83	59	71	84	65	75	81	56	69	83	57	7e	86	60	7.3
16 GHz	95	87	91	94	89	92	94	87	9:	95	86	90	96	88	92
28 GHz	98	94	96	97	94	96	97	93	95	99	94	96	98	95	96

CHOCOCE BACED BUCK CHUMCOV.

SOMEHITE BUSED DOLL	: ז אאחתניכ													
PARAMETER	YEARLY	r	31	AH-MF	R.	คร	マネージに	74	Ji	JL-SE	P	30	T - D	EC
	day nit	d&n	day	nit	dŁn	day	nıt	dån	day	กรร	dån	day	n t	ر بن
Percent occurrence	32 7	19	35	5	20	25	6	16	38	7	19	39	*	ر 4
AVG thickness Kf1		.32	l		.32	i		.34	}		.31	ļ		. 31
AVS trap freq GHz		.59	j		.57	ŀ		.56			.59			.65
AVG lyr and -H/Kft		_72			72			72			73			_(1)

PAPAMETER	71	EUST.	7	J	AN-M	RR	AI	PR-J	UH	J	JL-S	EP	01	CT-DI	EC
	day	nit	den	day	nit	dtn	day	nit	din	day	nit	din	day	nıt	d:n
Percent occurrence	22	29	26	36	46	41	18	22	20	14	19	17	21	28	7
AVG top ht Kft			6.4	[6.8	ĺ		6.2	ĺ		5.4	ĺ		7.1
AVG thickness Kft			. 43	i		. 58			.39			. 47	l		. 36
RVG trap freq GHz			.39			.29			. 44			.37			-46
hVG lyr grd -N/Kfi			60	l		62	ļ		58			59	i		59
AVG lyr base Kft	ł		6.1	l		5.5	ı		5.9	ı		5.0	!		6.9

E APORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCC	URRENCE	Y8	RRLY	1	J	BN-Mi	iR	Al	R-JI	JH	J	JL 58	₽	0.	T-DE	ξ -
			day	nit	d&n	day	nit	d&n	day	การ	d&n	day	012	din	day	7.12	d?n
f to	10	Feet	2	1	1	2	1	2	2	1	-2	1	1	1	2	i	2
18 3	29	Fezz	2	5	3	; 2	4	3] 1	5	3	1	6	4	2	5	3
29 10	30	Feet	4	. 7	_ 6	-	6	5	4	7	5	4	- 9		3	S	-
30 to	40	Feet	6	11	- 8	6	10	8	6	12	9	-	12	10	0	10	
48 to	50	Feet	16	15	14	9	16	12	11	21	16	9	26	14	تِ	19	: 4
50 10	60	Feet	12	21	16	10	19	15	14	22	16	3.1	20	15	13	23	• e
68 10	70	Feet	10	14	12	11	15	13	10	13	11	16	14	12	10	13	· · ·
78 to	80	Feet	7	8	7	8	11	9	6	6	6	Ē	5	6	7	ક	8
89 10	90	Feet	_ 5	- 4	_ 5	6	6	6	6	4_	_ 5	4	3	4	_6	4	5
90 to	100	Feet	3	2	2	4	3	4	3	- 2	2	3	1	2	3		_ Σ.
above	100	Feet	39	8	24	38	9	23	37	8	23	42	ē	26	39	7	23
Hean he	1 gh	t Feet	192	_59	_ 81	100	62	81	100	58	75	186	54	32	103	5?	60

GENEPAL KETEOPOLOGY SUHMARY:

PARAMETER	YE	APLY	,	36	111-111	PR :	คค	R-J1	NU	J	UL-S	EP	62	T-DEC
	day	nst	ರಸಿಗ	day	nit	ರ೭೧	day	nit	din	day	nit	der	day	*** 2*
% occur EL&SB dcts			3			4	1		2					
% occur 2+ EL dcts			6			11			4			2	1	
AVG station H			385			381	i		386			385	1	3=
AVG station -N/Kft			20			19	ļ		20			20	j	2
AVG sfc aind Kts	10	10	10	12	12	12	10	18	10	8.3	8.3	3.€	10	10 1

5 88 N 145 00 E (*) INDICATES INSUFFICIENT DATA Specified location: Radiosonde source : 91334 7 28 N 151 51 E

Radiosonde station height: 10 Feet

Surface obs source: MS22 5 98 H 145 99 E

PERCENT OCCURRENCE	OF E	KHHN	LED .	SURF	HLF-	0-5	NA.E HI	CE P	HUHP	FZW	15.	PHIII	<u>. : : : : : : : : : : : : : : : : : : :</u>		
FREQUENCY	Y	EARL'	Υ	J	AN-H	AR	RI	PR-JI	UN	J - 31	UL-\$1	P	00	T-DI	EC
	day	nıt	d&n	day	nit	dkn	day	nit	dån	Ø 3 ∵	4.4	der	day	nit	Q5 m
100 MHz	5	1	3	6	1	3	4	1	3	5	1	3	5	1	4
1 GHz	52	12	32	52	11	32	46	12	29	54	13	33	55.	13	34
3 CH2	63	19	_ 41	66	_ 22	44	57	18	37	63	_18	48	6.	19	43
6 GHz	85	61	73	88	69	79	81	60	70	84	54	69	87	61	74
) 10 GHz	35	89	92	96	93	95	94	88	91	95	84	98	96	98	. 3
20 GHz	98	96	97	98	98	93	97	95	96	98	94	96	98	96	97

SUPFACE BASED DUCT SUHMARY:

PARAMETER	YE	ARLY		J	AH-MA	ìR	. AF	'R-J(JH	J:	. . - 58	P	00	T-D	C
	day	nıt	dan	day	r-11	din	day	การ	din	day	nit	den	day	nit	den
Percent occurrence	32	7	19	35	5	20	25	- 6	16	30	7	19	39	8	ž.4
AVG thickness Kft			. 32	ŀ		. 32	1		.34	i		.31	l		. 31
AVG trap freq GHz			.59			. 57	ì		.56			.59	l		. £5
AVG tur and -N Kft			72			72			72			73	Ĺ		_71

FLEVATED DUCT SUMMARY:

PARAMETER	Y	EARL	Υ	7	AN-MI	AR :	Al	R-J	384	7,	JL -59	EF	96	7-06	C
	·sa··	nit	đěn	day	216	den	day	n <u>i t</u>	dtr	day	nit	den	day	nit	ರಕ್ಕ
Fercent occurrence	22	29	26	36	46	41	18	2Ž	20	14	19	17	21	28	٠5
AVG top ht Kft			6.4	ļ		6.8			6.2			5.4	l		7.1
AUG thickness I'ft			.43			.50			.39			.47			. 36
NVG trap freq GHz			.39			.29			.44			.37			.4€
RVG lyr grd -N/Kft	1		60			62			59			53			59
A'G live base kft	L		6.1	<u> </u>		6.5	_		5.9			5.0	,		6.9

E-APORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PEPCENT (DCCUPPENCE	[]	EARL'	r	3	AN-M	ar	l Ai	PR-J	UH	j.	レレーらは	EP	0	:7-15	C
		day	nit	din	dav	011	dår.	day	nit	d&n	da⊍	011	din	day	การ	<u>c</u>
0 to	10 Feet	2	1	i	2	1	1	2	1	1	2	1	1	2	1	. 1
18 16 2	20 Feet	1	4	3	[1	2	1	2	4	3	2	5	3	1	4	2
20 to 1	30 Feet	4	7	5	3	4	4	_ 4	7	6		_10	?	3	7	5
30 to .	10 Feet	5	11	- 3	5	10	7	6	11	. 6	ં	:3	10	5	11	•
40 to 5	50 Feet	9	18	14] 7	16	12	11	19	15	ie	19	1÷	8	19	14
50 10 6	SO Feet	11	26	16	10	19	14	12	22	17	12	20	16	1:	21	26
60 to	70 Feet	11	15	13	11	18	15	11	15	13	10	12	1)	11	15	13
70 to 9	30 Feet	7	8	8	9	12	10	7	7	7	5	5	5	-	9	8
50 .0 .	8 Feet	1 2	4	_ 6	9	_ 7	- 8	6	3	5	5	_ 3	_4		4	_ 5
90 to 1	100 Feet	1	2	3	5	3	4	4	1	3	2	1	2	T 3	1	Z
350ve	100 Feet	40	9	24	38	9	23	36	8	22	43	9	26	42	9	٠,5
Hean he	ght Feet	104	51	82	101	64	82	100	60	80	189	58	84	198	51	÷

PAPAMETEP	YEAPLY	JAN-MAR	APP-JUN	JUL-SEP	OCT-DEC
	dan nit din	das rit den	day nit din	day nit car	day nit den
% occur EL&SB dcts	3	4	2	2	4
% occur 2+ EL dcts	6	11	4	. ≥	?
AVG station H	385	381	386	395	396
RVG station -H/Kft	20	19	20	20	20
AVG sec uind Pts	11 19 11	14 13 13	11 16 11	8.7 9.2 8.4	11 10 10

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 7 19 H 134 28 E (+) INDICATES INSUFFICIENT DATA

Radiosonde source: 91408 7 19 N 134 28 E Radiosonde station height: 98 Feet Surface obs source: HS23 5 00 N 135 90 E

DESCRIPT OCCUPATIONS OF EMBRUCES CHARGES TO COMPANY ROBER FOR COM DOUGES.

PERCENT OCCURRENCE	رج _ در	NUUV	LED	SUKE	<u> </u>	10-20	UKFN	(2 P	חשתר	E 211		R 7714	<u> 353.</u>		
FREQUENCY	Y	EARL	Υ	J	AH-H	AR _	A	PR-J	אנ	Ji	UL-S	EP	0	CT-D	Et
	day	nit	den	day	nit	d&n	day	nit	dŁn	day	การ	dŧn	day	nit	dan
100 MHz	2	2	2	1	1		3	3	3	3	2	2	2	1	2
1 GHz	42	16	29	39	14	27	[13	31	43	17	36	44	15	.3
3 GHz	53	24	38	51	_ 23	_37	53	27	40	51	24	38	54	22	_ 3 ತ
6 GHz	80	63	71	81	67	74	78	62	79	79	58	68	82	64	73
10 GHz	93	86	90	94	91	93	93	83	88	93	84	88	94	ರರಿ	71
28 GH2	97	94	95	97	. 96	9€	97	92	94	98	92	95	97	>5	95

SUPFACE BASED BUCT SUMMARY:

PARAMETER	Y	ERRL'	Y	3!	n-H	ar.	Al	R-J	UN	J.	JL-S!	P	Ü	CT-DE	ι
	day	nit	₫₽n	day	nit	dŁn	day	nit	din	day	nit	dan	dar	nit	der.
Percent occurrence	18	12	15	12	8	19	21	17	19	21	15	18	16	9	13
AVG thickness Kft			. 24	1		.21	l		. 26			.27	ŀ		.22
AVG trap freq GHz			.93	ĺ		1.1	[.64			.89	Ī		1.1
AVG lyr grd -H-Kft			113	L	_	127			191			103	L _		127

ELEVATED DUCT SUMMARY:

PARAMETER	YI	EARL	Y		AN-MI	AR -	6	R-J	UK .	J	JL-Si	P	36	CT-01	Ēι
	day	nit	d&n	day	nıt	d£n	day	การ	den	day	210	Can	da.	nit	2 -
Percent occurrence	19	21	28	33	42	38	16	17	17	9	9	9	16	17	1.7
AVG top ht Kft			5.4	J		6.6	l		€.3			2.9			5.6
AVG thickness Kft			. 45			.53			. 43	L_		.43			. 40
RVG trap freq GHz			.44		-	. 29			. 42			.54			.51
AVG lyr grd -N/Kft			56	•		58	i i		57	1		53			57
AVG lyr base Yft		_	5.8			6.2			5.9			2.6			5.5

EMAPORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PERCENT OC	CURRENCE	71	EARL'	Υ	J	AN-MI	RR	Ai	R-J	UN	3	UL-SI	EP	00	T-DE	C
		day	nit	dŁn	Jav	nit	dan	day	nit	din	day	nit	dan	day	r. 1 t	địn
9 to 10	Feet	1	1	1	1	1	1	1	1	1	1	1	i	1	2	
10 to 20	Feet	2	6	4	1	4	3	2	8	5	2	8	5	2	4	3
20 to 30	Feet	5	8	6	4	5	4	5	10	8	6	10	8	_ →	8	. 6
38 to 48	Feet	6	10	8	5	9	7	S	10	۶	ε	11	- S	4	٠	_ =
40 to 58	Feet	10	16	13	10	18	14	10	15	13	12	13	15	10	15	13
50 to 60	Feet	12	20	16	12	21	16	13	28	_15	14	20	17	10	28	:5
60 to 78	Feet	11	14	12	11	15	13	10	14	12	ĮΪÑ	11	1 i	12	15	14
70 to 90	Feet	8	ક	ક	9	9	9	6	6	6	7	6	7	8	9	ç
80 to 90	Feet	6	4	_ 5	7	S	6	<u> </u>	4	5	4	3	4	5	4	_ =
98 to 10	Feet	3	2	3	4	3	4	2	1	2	3	2	2	4	2	3
above 18	3 Feet	37	10	23	36	11	23	35	10	23	36	10	23	40	11	25
Mean heigi	ht Feet	100	62	81	168	65	63	98	59	79	98	69	74	105	63	შ 4

PARAMETER	YERRLY	JAN-HAR	APR-JUN	JUL-5EP	OCT-DEL
	day nit din	day nit din	day nit din	day nit den	day nit don
% occur EL&SB dcts	2	3	3	1	1
% occur 2+ EL dcts	4	11	3	0	3
AVG station N	385	382	387	385	386
RVG station -N/Kft	28	19	20	19	23
AVG SEC wind Fis	10 9.5 10	12 11 12	10 8.4 9.0	10 8.7 9.3	16 9.3 10

138 84 E 9 28 N 138 84 E

(+) INDICATES INSUFFICIENT DATA

Radiosonde source: 91413 9 28 N

56 Feet

Radiosonds station height: Surface obs source: MS23 5 99 N

135 00 E

FRE	DUENCY	Y	EARL'	Y	Ji	H-HF	ar -	A)	R-J	in	31	UL-51	EΡ	Õ	CT-DI	ĒČ
		day	การ	d&n	day	nit	din	day	nit	d&n	day	nit	den	dav	nit	dt -
100	HHZ	4	1	3	4	1	2	4	1	3	4	1	3	4	2	3
1	GHz	46	15	30	45	14	29	45	13	29	45	15	30	49	15	33
_ 3	GH2	56	22	39	58	23	40	55	20	37	54	21	38	59	24	42
6	GH≥	81	61	71	83	66	75	79	58	68	80	56	€8	84	65	-5
18	GHz	94	96	90	95	91	93	93	81	e.	94	83	88	95	88	91
26	GHz	98	93	95	98	96	97	97	91	94	98	92	95	97	95	9€

SOKEHIE BUSED DOLL	<u>אחחה ב</u>	HRT:													
PARAMETER	71	ERRL'	Y	31	RN-M	AR	A	PR-JI	UN	7	5L-51	ĘΡ	01	CT-B	ËC
	day	nit	der	day	nıt	d&n	day	nıt	den	day	nı.	den	day	nit	dŧn
Percent occurrence	26	9	17	25	- 6	16	25	7	16	26	10	18	28	11	2.3
AVG thickness Kit			. 27			. 25	Ī		. 31			.27	i		. 26
AVG trap freq GHz			.71			.65	1		.61	1		.78	l		.81
AVG lun grd -N/Kft			101			89	i		105	l		122			36

PARAMETER	YI	FARL'	Υ	Ji	AN-M	AR	R	R-J	UH	31	L-Si	EF	01	T-DE	.C
L	day	กาะ	den	day	nit	はわり	day	nit	dån	day	nit	dtn	day	nit	ctn
Percent occurrence	25	23	24	39	38	39	24	19	22	13	9	11	23	27	25
AVG top ht Kft			5.7			6.4	ŀ		6.8	i		3.5	!		6.1
AVG thickness Kft	L		.46			.53			. 44	i	_	.46	L		.42
AVG trap freq GHz			.32	i		.24			.33			. 36			.36
AVG lyr grd -N/Kft	İ		59	ì		61			61			56	i		57
AVG lyr base Ift			5.4	L		6.0			6.5			3.1	L		5.8

EVAPORATION DUCT HISTOGRAM IN PEPCENT OCCURPENCE:

PERCENT OCCURRENC	EY	EARL	Y	ļ J	คท-ห	AR T	AF	R-J	.N	J	LL-SE	EP	00	T-DE	EC
	day	ntt	din	day	nit	den	day	r. 1 2	dŧn	da⊱	nit	d‡r	day	nit	den
0 to 10 Feet	i	1	1	1	1	1	1	1	1	1	1		1	2	2
10 to 20 Feet	2	6	4	1	4	3	2	8	5	2	8	5	2	4	3
20 to 30 Feet	5	3	6	4	5	_4	5	10	8	6	16	â	4	8	6
30 to 40 Feet	6	10	8	5	- 9	7	8	10	- 9	6	11	8	4	- 3	?
40 to 50 Feet	18	:6	13	13	18	14	10	15	13	12	18	15	10	15	13
50 to 68 Feet	12	28	1€	12	21	16	13	28	16	14	20	17	10	20	15
60 to 79 Feet	7 11	1 →	īž	11	25	12	ie	11	12	11	11	11	12	15	14
70 to 88 Feet	8	8	8	ļ 9	9	9	[6	6	€	7	- 5	?	૯	è	8
80 to 98 Feet	6	4	5	7	5	_ 6	6	4	5	_ 4	3	4	5	4	5
90 to 100 Feet	3	2	3	4	3	4	2	1	2	3	2	2	4	2	- · · · · · ·
above 100 Feet	37	18	23	36	11	23	35	10	23	36	10	23	40	11	25
Hean height Feet	100	62	81	100	65	83	98	59	75	92	ĸa.	- 3	195	63	ε÷

PARAMETER	YEARLY	JAN-HAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit dên	dau ni' itn	da - rit den	day nit dan
. occur EL&SB dcts	3	6	2	2	2
% occur 2+ EL dets	6	11	4	1	6
AVG station N	385	380	386	386	38?
AVG station -H/Kft	28	19	20	20	20
AVG sec used Frs	10 9.5 10	12 11 12	10 8.4 9.0	10 8.7 9.3	10 9.3 :0

HISTORICAL PROPAGATION CONDITIONS SUPMAP/

Specified location: 7 30 N 122 07 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source: 98836 7 38 N 122 07 E Radiosonde station height: 16 Feet Surface obs source: MS24 5 00 N 125 00 E

PERCENT OCCURRENCE OF ENHANCED SUPFRCE-TO-SUPFRCE PADAP/ESM/COM RANGES:

		occom anca		*****				 	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<u> </u>	· · · · · ·						
	FRE	DUENCY	Y	EARL	Υ	JI	RN-M	AR	H	PR-JI	JN	Ji	JL-Si	EP	0.0	CT-DE	EC
1_			day	nit	d&n	day	nit	dan	day	nit	dan	day	nit	din	day	n) t	_dan
Г	160	MHZ	5	0	3	2	- 8	1	1	8	1	6	0	3	11	8	5
1	1	GHz	46	12	29	41	11	26	42	13	27	52	11	32	48	12	39
1	3	GHz	54	18	36	59	18	34	59	17	34	52	19	40	54	19	31
	6	GHz	77	54	65	77	55	66	73	50	61	82	· 55	58	78	55	-6€
	10	GHz	92	83	88	92	86	89	89	81	85	63	82	38	92	84	88
1	20	GHz	96	92	94	97	94	95	95	92	93	97	92	94	97	92	94

SUPPORE PASED DUCT SUMMARY:

IREPS REV 2.1

PARAMETER	YI	EARL	Y	J	HH-K	AR	Al	R-J	UN	J	UL-5!	P	O	(T-D	ĒŪ
<u> </u>	day	nit	d&n	day	nst	dŁn	day	การ	dån	day	nit	den	day	nit	den
Percent occurrence	16	Đ	8	18	0	5	9	-0	5	30	0	15	13	8	7
AYG thickness Kft			. 64			.34			.32	l		.42			1.5
AVG trap freg GHz			.35			.38	ŀ		.58	ĺ		.39			. 65
AVG lyn grd -N/Kft			126	L		106			104			189	_		184

ELEVATED DUCT SUMMARY:

PARAMETER	_YI	EHRL'	4	- 31	AN-M	AR .	AI	PR-JI	หย	31	JL-SI	P	00	T-DE	EC
	day	กาง	d&n	day	nit	dan	day	nit	d‡r	day	nit	dan	day	nit	dtn
Percent occurrence	5	- 0	- 2	0	0	0	1	- 0	1	13	0	7	5	- 0	3
AVG top ht Kft	•		4.8	i		*	I		9.4	ĺ		1.9	i		3.1
AVG_thickness_bft	i		.78	l	_	*			.16			1.0			1.2
AVG trap freq GHz			1.2			*			3.6			.69			.05
AVG lyr grd -N/Kft	i		64	1		*			48	1		69	l		74
AVG lyr base Kft	[4.3	1		*	İ		9.2	!		1.2	i		2.5

STATEMENT OF STATEMENT OF STATEMENT AND STATEMENT OF STAT

EVAPORATION BUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT C	CCURRENCE	Y	ARL	,	Ji	AH-Mi	RR	AF	R-J	JH	J;	JL-58	F	00	7-DE	L
		day	nit	<u>d&n</u>	day	nit	<u>d&n</u>	day	nit	4をn	day	nit	den	day	nit	dŁn
0 to 1	8 Feet	2	2	2	2	2	2	2	2	2	2	1	2	1	2	
10 to 2	20 Feet	2	6	4	2	5	3	3	7	5	2	6	4	2	6	4
20 to 3	30 Feet	5	9	. 7	_ 5	. 7	6	6	10	8	5	18	. 7	5	. 9	?
30 % 4	8 Feet	7	12	9	7	12	10	8	13	10	ő	10	ક	6	12	
40 to 5	50 Feet	19	18	14	19	19	:5	10	19	15	10	17	14	18	17	14
50 to 6	0 Feet	11	17	_14	11	17	14	11	17	14	11	18	15	11	17	14
68 to 7	'O Feet	10	12	11	10	13	12	8	11	19	10	12	11	9	11	
78 to 8	88 Feet	6	6	6	8	8	8	5	5	5	6	7	6	6	7	ε
88 to 9	8 Feet	5_	_4	_ 4	5	_ 4	5	4	3	- 4	5	4	4	5	S	5
90 to 1	CB Feet	3	2	3	3	2	3	2	- 5	2	3	2	3	3	3	3
above 1	198 Feet	39	12	25	36	11	24	39	13	2€	39	11	25	40	12	26
Hean her	ght Feet	102	63	82	98	63	81	183	62	82	102	62	82	184	63	83

PARAMETER	YEARL	Y	JF	H-H	ìR	AF	R-JI	JN	31	JL-51	ΕP	C:	T-DE	<u> </u>
	day nit	dtr.	day	nit	din	day	nit	den	day	nit	dan	day	nit	din
% occur EL&SB dcts		8			9			9			6	i~		9
% occur 2+ EL dcts		9	i		9			0			0	(e
AVG station N		381	}		375	i		384			381	1		3\$2
AVG station -H/Kft		20			18			20			21	ł		26
AVG sfc wind kts	10 9.1	19	12	11	11	8.2	7.6	7.9	16	9.0	9.5	10	9.2	9.5

Specified location:

116 03 E

Pidiosonde source: 96471 5 57 N

化分子的 医多种的 化对对对对 医多种的 化多种的复数形式

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Fidiosonde station height: 10 Feet

Surface obs source: MS25

5 00 N 115 00 E

LEKCENI OCCORRENCE	UF E	HHHM	LEU	SUFF	H1 E -	10-5	UKFR		<u>nunr</u>	230	CON	R FILLS	3E 3.		
FREQUENCY	YI	EARL'	Υ	Ji	ลห-ท	38	- AI	R-J	JH	J	UL-5	ĒΡ	50	CT-DE	ĔŪ
	day	nit	dtn	day	กาะ	d&n	day	nit	den	day	nit	dan	day	nit	dan
100 MHz	3	3	3	j 2	1	2	4			1	4	- 4	4	4	4
1 GHz	42	24	33	48	17	28	49	28	39	45	24	34	36	25	39
3 GH ‡	53	34	43	50	26	38	57	37	47	_5€	34	45	47	_37	42
6 GHz	78	- 66	72	76	62	69	80	€6	73	81	68	75	75	68	72
10 SHz	92	88	98	91	88	89	92	86	89	93	88	90	92	98	91
20 GHz	96	94	95	95	94	95	96	93	94	97	94	95	97	96	55

SUPERCE BASED DUCT SUMMARY.

PARAMETER		EARL	7	J	AN-M	aR	- 81	P-J	JN	J	UL-SE	Ρ	00	T-DI	EC
	day	nıt	dtn	day	nit	dŧn	day	nit	d&n	day	การ	dtn	day	nıt	din
Percent occurrence	24	22	23	17	9	13	25	23	24	29	24	2:	26	31	-29
AVG thickness Kft	ì		.27	ł		.31	i i		. 26			، 26	ŀ		. 24
AYG trap freq GHz			.77			. 85			.75			.65			.83
AVG lyr grd -H/Kft			90	1		100			88			93	l		88

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	J	AH-H	RR .	A	R-J	NH	J	JL-Si	ĒΡ	- 01	CT-DI	EC
	day	nit	d&n	day	nit	dsn	day	nit	dan	day	<u>rat</u>	dtn	day	nit	der
Percent occurrence	7	5	6	1:	8	19	5	5	5	7	3	5	5	5	5
AVG top ht Kft			4.2			4.3	1		6.2	l		2.8	i		2.9
AVG thickness Kft			. 58	Ĺ		.48	i		.56	<u> </u>		.74			.53
AVG trap freq GHz			.31			.42			.31			.22			. 31
AVG lyr grd -N/Kft			62	i		56			57	Į.		69			65
AVG for base I'ft			3.7			4.4			5.7	l		2.2	İ		2.6

EAMBORNI						FAFF	NI U	CUR									
PERCENT	900	URRENCE	1 4	ARL'	Y .] J:	AN-M	AR .) AI	P-J	ŲΗ	J:	اد-\$1	EP .	į o	CT-DE	EC
			day	nit	dan	day	nit	den	day	nit	d&n	day	การ	d&n	day	nit	d7 n
0 to	10	Feet	3	2	2	3	3	3	2	i	2	2	2	2	2	2	<u>~</u>
10 to	20	Feet	<u> 3</u>	6	4	3	3	3	4	8	6	3	6	5	2	4	3
28 10	38	Feet	_ 5	8	6	5	7	6	4	8	- 6	5	8	5	6	7	7
30 to	49	Feet	-	11	9	8	11	9	7	10	8	6	10	8	9	:3	11
40 10	5ů	Feet	11	16	13	19	16	13	9	15	12	11	14	12	12	17	15
50 10	60	Feet	12	_ 17	15	12	17	14	12	16	14	11	13	15	1.4	18	16
60 to	70	Feet	10	13	11	10	12	11	18	12	11	11	14	12	11	:3	12
70 to	80	Feet	7	8	3	7	19	8	5	6	5	8	9	9	8	9	8
80 10	90	Feet	- 6	5	5	6	5	6	4	3	4	6	5	ě	6	5	6
90 to	100	Feet	3	3	3	3	3	3	3	2	3	4	2	3	3	3	3
abov∈	100	Feet	33	13	53	34	13	23	40	18	29	33	12	22	25	10	17
Hear he	igh	t Feet	94	65	79	93	65	79	193	78	87	95	64	88	83	61	. 5

GENERAL METEOROLOGY SUNHAPY:

PARAMETER	YEAR	Y	Ji	A:1-116	36	Ai	- R-JI	7H	3	JL-SE	P	00	T-DE	C
	day nii	dŧn	day	nit	d&n	day	กาเ	d&n	day	nit	der	day	nit	din
% occur EL&SB dcts		1			Ū			0			1			1
: occur 2+ EL dets		อ	t		:			0			ø	ł		0
AVG station N	ł	385			382			387	i		384			385
AVG station -N/Kft		19	ĺ		19			19			19	i		19
AVG sec usnd Kts	12 1	12	14	14	14	8.8	3.0	8.4	12	11	11	:3	13	13

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 6 10 N 102 16 E

Radiosonde source : 48615 6 10 H 102 16 E

Radiosonde station height: 16 Feet Surface obs source: NS26 5 00 N 105 00 E

PEPCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAP ESM CCM RANGES

FEF	LEMI	OCCURRENCE	UP E	MUUM	LED	SURF	NLE-	10-50	UKFRI		חשרר	E 2 m	r r	IL MART	uE 5:		
	FRE	QUEHCY	Y	EARL'	Ÿ	J	AH-H	R.	RI	PR-JI	UH	J	JL-5	EP	0	CT-D	EC _
L			day	nit	d&n	day	nit	dŧn	day	nit	d&n	day	nit	d&n	dav	nit	d&n
	100	HHz	3	0	1	1	9	1	4	9	2	4	9	2	2		1
i	1	GHz	38	14	26	33	14	23	49	28	34	41	14	28	29	9	19
l	3	GHz	47	21	34	41	28	31	58	26	42	_52	21	37	37	15	. 25
	6	GH2	74	58	66	68	56	62	80	62	71	80	64	72	68	51	
1	10	GHz	90	85	88	88	84	86	92	85	89	94	88	91	89	83	86
1	_20	GHz	95	93	94	93	_ 93	93	97	94	95	97	95	96	94	92	93

(*) INDICATES INSUFFICIENT DATA

SUMPACE BASED DUCT SUMMARY:

PARAMETER	Y	ARL	Y	J	AH-M	iR	AF	R-J	JN	J	JL-SI	EP	00	T-DE	C
	day	nit	d&n	day	nit	d&n	day	215	d&n	day	nit	d&n	dav	ոլլե	d&n
Percent occurrence	19	0	10	16	0	- 5	30	0	15	25	0	13	12	0	6
AVG thickness Kft	ĺ		.35			.53	ĺ		. 25	[.24	[.37
AVG trap freq GHz			.84			1.1	l		.84			.77	1		.64
AVG ivr grd -N/Kft			124	i		112	L		118			104	L	_	181

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	J	M-NE	AR	Al	PR-J	UN	J:	JL-SI	LP	90	LT-DI	EC
	dav	nit	d&n	dav	nit	dån	day	nit	dan	Say	nit	d&r	day	การ	dzn
Percent occurrence	21	9	11	38	8	19	17	9	9	17	8	y	12	- 6	•
AVG top ht Kft			3.2	l		5.8	İ		3.0	1		1.1	l		3.0
AVG thickness Kft			.41	<u> </u>		.48			. 36	l		.42	ł		. 3?
AVG trap freq GHz			.53			.44			.84			.57			.65
AVG lyr grd -N/Kft			54			59			51	1		53	i		54
AUG for base Kft_			2.9	l		5.4			2.7	ŀ		.77	Ī		2.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT	occi	IRRENCE	Y	EARLY	~~~	J	AH-M	3R	Al	R-J	UH	30	UL-SI	EP	C(T-DE	C
			day	nit	d&n	day	nit	d&n	day	n1t	dan	day	r11	dtn	dav	~	4* ^
8 to	10	Feet	2	2	2	4	3	4	2	1	1	ī	1	1	3	2	_ 3
19 10	20	Feet	3	5	4	4	4	4	3	5	4	3	4	4	3	5	4
20 to	30	Feet	6	8	7	_6	. 8	7	6	9	7	4	7	6	6	_ 9	3
30 to	40	Feet	8	11	9	9	12	11	7	- 9	ε	9	- 9	7	10	14	12
40 to	50	Feet	11	16	14	12	17	14	9	14	12	11	16	13	13	18	16
5 <u>0 to</u>	60_	Feet	13	17	15	12	17	14	11	15	13	14	18	16	_1→	17	16
60 to	70	Feet	11	13	12	18	11	11	9	12	: 1	12	15	13	12	12	12
70 to	86	Feet	7	8	8	7	8	7	6	8	7	ė	9	9	7	7	7
88 10	98	Feet	5	4	4	4	4	4	4	_4	4	5	5	5	5	4	4
98 to	100	Feet	3	2	3	3	3	3	3	2	3	7	3	3	3	2	
above	166	Feet	3:	14	22	29	14	21	39	28	29	32	14	23	23	9	16
Hean he	ight	Feet	99	€7	78	85	65	75	102	74	88	93	68	81	80	59	69

PARAMETER	YER	ARLY	Υ	7	าห-ห	ĀR	A	PR-J	UN	Ţţ.	JL-51	EP -	01	T- D!	E C
	day r	11	den	day	nit	d&n	day	nit	ರಕ್ಕ	dav	21	don	day	rit	dy n
% occur EL&SB dcts			2			3			4			1			8
% occur 2+ EL dcts	ŀ		2			5			2			1			1
AVG station N	ì		333	İ		380	ļ		386			383	l		384
AVG station -N/Kft			19			18			20			20	ĺ		ខេ
AUG sfc wind Its	11	11	11	13	12	12	8.4	8.2	8.3	11	10	10	12	_12	14

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HISTOPICAL PROPAGATION CONDITIONS SUMMARY IPEPS REV 2.1

(*) INDICATES INSUFFICIENT DATA Specified location: 3 46 N 193 13 E Radiosonde source : 48657 3 46 N 183 13 E

Radiosonde station height: 59 Feet

Surface obs source: HS26 5 88 H 105 00 E

DEDICENT OCCUPPENCE OF ENHANCED SUPERCE-TO-SUPERCE RADAP FSM COM RANGES:

PEPLENI L	りょくりゃくだいじた メ	UF E	MMMM	ren :	5UKF	HI.E	יכדטי	UPPE	LE RO	יחעה	E 21.	500	S CO.	353.		
FREC	DUENCY	Y	EARL'	Y	J	AN-MI	38	AI	PR-J	JH	J	JL-S!	EP	0	CT-91	EÇ
1		day	nit	ರಹಿಣ	day	nıt	d&n	day	nit	d&n	day	nit	dŁn	day	nit	dt n
100	MHz	1	8	0	0	0	8	1	- 0	1	1	8	1	1	8	ઇ
1	GHz	33	14	24	30	14	22	42	20	31	35	14	25	25	9	17
3	GHz	42	21	31	37	29	29	51	26	39	45	21	33	34	15	24
6	GHz	71	58	65	66	56	61	76	62	69	77	64	79	66	51	59
10	GHz	89	85	87	86	84	85	98	85	88	93	98	90	88	83	\$5
20	GHz	95	93	94	92	93	92	96	94	95	97	95	96	94	92	93

CURCOCE BACER BUCT CHMMARY

PARAMETER	Y	EARL	Y	Ji	AN-MI	R.	R1	PR-J!	311	31	JL-38	P	01	CT-DE	EC
	day	nit	dŧn	day	nit	d&n	day	nit	d&r,	day	กาเ	den	day	nit	dån
Percent occurrence	8	0	4	1	0	1	12	0	6	11	0	6	8	0	4
AVG thickness Kft			. 25	İ		.23	i		. 28	l		. 25	i		. 4
AVG trap freq GHz	ĺ		1.2	l		.61	İ		1.2	i		1.0	ł		1.8
AVG lyn and -N/Kft	ļ		138	i		118	l		140	Ĺ		192			192

CLEVATED DUCT SUMMARY.

FARAMETEP	Y	EARL'	Υ	Ji	AH-M	1R	AF	R-J	JN	J	JL-S!	EP	0	CT-DI	EC
<u></u>	day	nit	d&n	day	nit	d&n	day	nit	den	da	nit	dt n	ゴねい	nıt	dan
Percent occurrence	12	0	6	33	9	17	4	9	Z	4	- 0	2	7	0	4
AYG top ht kit			5.8			7.5			4.1			7.3	ĺ		4.3
AVG thickness Ift			.41	L		. 42			.31			.40	l		.51
AVG trap freq GHz			.86			.39			1.7			1.1			. 29
AVG lyr grd -N/Kft	İ		62			66	İ		52	ļ		71	!		59
AVG lim base Kft	l		5.5	ł		7.2			3.9			7.1	ı		3.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PERCENT OCCU	PRENCE	YE	ARL	4	31	H-HA	R	Ai	P-J	JH.	J,	JL -35	Ρ	00	T-DE	EC
		da	nit	dan	day	nit	d&n	dav	nıt	den	dav	n-1	den	da	nit	dsn
8 to 18	Feet	2	2	2	4	3	4	2	1	1	1	i	1	3	2	3
10 to 20	Feet	3	5	4	4	4	4	3	5	4	3	4	4	3	5	4
28 10 38	Fee:	6	8	7	6	8	7	6	9	7	4	7	- 5	6	9	8
38 to 40	Feet	8	11	9	9	12	11	7	- 9	- 8	ō,	8	7	10	14	12
40 to 50	Feet	11	16	14	12	17	14	9	14	12	11	16	13	13	18	16
50 to 60_	Feet	13	17	15	12	17	14	11	15	13	14	18	16	14	17	'5
60 to 70	Feet	11	13	12	10	11	11	9	12	11	12	15	13	12	12	12
70 to 80	Feet	7	8	8	7	8	7	6	8	7	9	9	9	7	7	7
80 to 90	Feet	5	4	4	4	4	4	4	4	4	5	5	5	5	4	4
90 to 100	Feet	3	2	3	3	3	3	3	2	3	4	3	3	3	2	2
abov∈ 100	Feet	31	14	22	29	14	21	39	26	29	32	14	23	23	9	:€
Mean height	Feet	90	67	78	85	65	75	102	74	88	43	68	81	86	59	- 5

PAPAMETER	YE	ARL'	′	Ji	311-116	iR .	Al	P-JI	JH	Ju	JL-5	P	09	CT-DE	EC
	day	nit	otn	day	nit	dşn	day	rit	den	day	711	den	day	nıt	dsn
% occur EL&SB dcts			0						0			0			1
% occur 2+ EL dcts			3			11			6			9			ð
AVG station N			371	ŀ		368			375			374	1		368
AVG station -H/Kft			18	l		17			19			19			18
AVG sic wind Kis	11	11	11	13	12	12	8.4	8.2	8.3	_ 11	10	19	12	12	12

HISTORICAL PROPAGATION CONDITIONS SUMMES IPEPS REV 2.1

100 16 E (*) INDICATES INSUFFICIENT DATA Specified location: 5 18 N

5 18 N 100 16 E Radiosonde source: 48601

Radiosonde station height: 10 Feet Surface obs source: MS26 5 00 N 105 08 E

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RAMCES:

FREQ	NEHCY	Y	EAPL	Y	Ji	AN-M	R -	AI	PR~J	140	J	JL-SI	EP	0:	T-DI	ΕĹ
		day	nit	<u>d&n</u>	day	nit	dan	day	nit	dtn	day	nit	dtn	day	nit	d: 2
100	MHz	7	6	6	5	- 6	- 5	8	7	77	7	6	6	7	7	
1	GHz	49	35	42	44	33	38	58	41	59	50	33	41	43	33	ક્ક
3	GHz	50	47	54	54	44	49	78	53	62	62	45	54	55	45	50
6	GHz	81	74	78	76	71	73	86	77	82	85	76	81	78	70	٠.4
18	GHz	93	91	92	91	98	98	95	92	93	95	92	94	93	90	91
20	GHz	97	96	96	95	95	95	98	97	97	98	97	97	96	96	96

SOMERCE RUSED DOCT S	SUMMHRY	 _												
PARAMETER	YEAR	YERRLY day nit d&n d			AR	Ai	PR-J	UH	J	LL-SI	EP	00	T-DI	EC -
	day ni	ı d&n	day	nıţ	d&r.	day	nit	d&n	day	nit	dan	day	711	d2 r
Percent occurrence	46 4	3 45	36	39	38	56	47	52	48	40	44	45	45	+5
AVG thickness Kft		.2€	1		. 28	l		. 25	1		.24			.26
AYG trap freq GHz		.73	1		.72			.72	ĺ		.79			.69
AVG lur grd -N/Kft		81			82			78	<u> </u>		81			_ 83

PARAMETER	YE	HPL	Ÿ	J	AH-M	AR	AF	R-JI	HU	J	JL-SI	EP	Ü	(T-D	ĒČ
	day	nit	d&n	cay	nit	<u>d&n</u>	dey	nit	dan	day	nit	dan	day	nit	dan.
Percent occurrence	10	9	10	20	16	18	8	12	10	8	- 5	7	5	3	4
AVG top ht kft	i		4.3	ļ		6.1	1		2.7			2.2	1		6.0
AVG thickness Kft	-		. 46			.49	l		.48	١		.49	!		.37
AVG trap freq GHz			.47			.34			.47			.29			7
RVG lyr grd -N/Kft			58	ĺ		59	i		56	1		59			59
AVG lyr base Kft			3.9	}		5.7			2.3			1.9	l		5.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	eccu	PRENCE	Y	ARL	'	J	RN-MI	R R	RI	PR-JI	DΗ	3.	JL - 51	EP	0(CT-Da	£ 1.
			day	nıt	ď&n	day	n1t	dan	day	nit	dan	day	nit	d&n	Jav	nit	din
8 to	10	Feet	2	2	2	4	3	4	2	1	1	1	1	1	3	2	3
10 to	28	Feet	3	5	4	4	4	4	3	5	4	3	4	4	3	5	4
28 to	38	Feet	€	8	7	6	8	7	6	_9	7	4	7	6	6	9	3
30 tc	40	Feet	8	11	9	ò	12	11	7	9	8	6	8	7	10	11	<i>-</i>
40 to	50	Feet	11	16	14	12	17	14	9	14	12	11	16	13	13	18	:5
50 to	60	Feet	13	17	15	12	17	14	11	15	13	14	18	16	14	1.7	16
60 to	78	Feet	11	13	12	19	11	11	9	12	11	12	15	13	12	12	12
70 to	89	Feet	7	8	8	7	8	7	6	8	7	9	9	9	7	7	7
80 to	90	Feet	5	_4	4	4	4	4	4	4	4	5	5	5	5	4	4
90 00	100	Feet	3	2	3	3	3	3	3	2	3	7	3	3	3		2
above	160	Feet	31	14	22	29	14	21	39	20	29	32	14	23	23	9	16
Hean he	ight	Feet	98	67	78	85	65	75	182	74	88	93	68	81	୫୫	59	69

PARAMETER	Y	ARL	,	Jf	9H-H6	ar 💮	ละ	R-JI	JH .	JU	L-SE	P	00	T-DI	<u>.</u>
	day	nit	d&n	day	nit	d&n	day	nit	ರಹಿಗ	day	011	d&n	day	กาน	a'r
% occur EL&SB dcts			3			5			3			3			Ž
% occur 2+ EL dcts	i		1			2	i		1			9			6
AVG station N	ĺ		382			376	ł		387	i		383			332
AVG station -N/kft			19	İ		19			28			20			19
AVG sfc wind Kis	11	_11	<u>i1</u>	13	12	12	8.4	8.2	8.3	11	10	10	12	12	12

TREPS PEY 2.1 -ISTORICAL PROPAGATION COMBITIONS SUMMAD

Specified location: 1 22 N 103 55 E (+) INDICATES INSUFFICIENT DATA

Radiosonde source : 48694 | 1 22 N | 183 55 E

Radiosonde station height: 59 Feet Surface obs source: MS26 5 00 N 105 00 E

PERCENT OCCURRENCE OF ENHANCED SUPFRCE-TO-SURFACE PADAR ESH COM PANGES:

PERCENT OUT ORMENCE	E:	HHI	. E 9 '	20144	41.E-	10-26	JK F HI	<u>. E 71</u>	THE.	E 211	f Gar	PHIL	<u> </u>		
FREQUENCY	YE	RPLY	Y	J	ali-M	ir -	Fi Fi	Ŗ-JI	ЭH	7	JL-S	EP	0:	CT-DE	ΞC
	day	nır	d&n	day	nit	dtn	day	nıt	d&n	ود ۵	n1‡	dan	day	rit	d&n
100 MHz	2	0	1	1	0	0	4	- 0	2	2	- 6	1	1	0	1
1 GHz	36	14	25	32	14	23	48	28	34	37	14	25	26	9	:8
3 GH2	! 45	21	33	49	_ 20	39	57	_ 26	41	47	21	34	35	15	15_
6 GHz	73	58	65	67	56	61	79	62	70	78	64	71	67	51	59
10 GHz	96	85	87	87	84	86	91	85	88	93	88	90	89	83	86
20 GHz	95	93	94	93	93	93	96	94	95	97	95	96	94	92	-93

SUPERCE RASER DUCT SUMMERY:

PRRAMETER	Y	ARL	r	J	A:I-NI	R.	£!	R-J	UN	31	JL-S	P	Ü.	r-DE	C
	day	<u>n1t</u>	d&n	day	011	ರಕಿಗ	day	กาเ	dsn	day	nı t	d&n	day	nit	d:n
Percent occurrence	15	0	7	7	0	4	22	0	13	17	Ü	9	13	- 0	
AVG thickness Kft			.34			. 24	ĺ		.68			.22			.23
AVG trap freq GHz	i		1.3	l		1.0	l		.50	l		1.2			2.5
AVG lyr gra -H/Kft	İ		134	l	_	127	l		105	L		280	L		223

ELEVATED DUCT SUMMARY:

PARAMETER	YI	ERRL	Y	- 31	4-i:A	AR .	R!	R-J	UN	j	JL-SE	P	0	CT-Di	EC
	day	nii	d&n	day	011	d&n	day	nit	dan	day	nit	d\$n	da⊍	nıt	d:
Fercent occurrence	2	-0	1	7	0	4	1	0	1	1	- 0	1	0	0	ē
AVG top ht kft			7.5	1		5.3			13	l		3.8	[•
AVG thickness lft			.26	L		. 45	L		. 13	<u> </u>		. 20			_ *
AVG trap freq GHz	i		2.1	1		.29			3.1			3.6			
AVG lyn grd -H/Kft	i		57			65			57			48	l		•
AVG for base Ift			7.3	1		5.0			13	i		3.6	l		•

EMAPORATION BUCT HISTOCPAN IN PERCENT OCCUPPENCE:

PEPCENT OCCUPPENCS	YE	HPL'	Ÿ	J	An-M	98	AF.	P-J:	JH	J.	JL-5	EF	00	T-DE	C
	da	211	J* r	day	D11	dŧn	day	การ	₫\$r	ďà.	0:1	@2 r	OB.	rit	di n
C to 10 Feet	-	2	2	4	3	4	2	1	1	1	1	1	3	2	₹
18 to 20 Feet	3	5	4		4	4	3	5	4	٠ :	4	4	3	5	4
26 to 36 Feet	6	8	7	6	_ 8		6	9	7	4	7	Ó	5	9	8
30 10 40 Feet	8	11	9	9	12	11	7	- 9	3	6	8	7	16	14	12
40 to 50 Feet	11	16	14	12	17	14	9	14	12	11	16	13	13	18	1 -
50 to 60 Feet	13	_ 17	15	12	17	14	11	15	13	14	18	1 €	14	17	16
60 to 78 Feet	11	13	12	10	11	11	9	12	11	12	15	13	12	:2	12
70 to 80 Feet	7	8	8	7	8	7	6	8	7	بو	9	Q.	-	7	:
30 to 90 Feet	5	_ 4	4	- 4	_ 4	_4	4	- 4	4	5	5	5	5	4	4
90 to 100 Feet	3	2	3	3	3	3	3	2	3	7	3	3	3	2	2
above 100 Fees	3:	14	22	29	14	21	39	26	29	32	14	23	23	٥	15
Hean height Feet	-0	67	78	80	65	75	1102	74	88	93	68	81	85	59	20

PAPAMETER	EAPL	Y	JA	+-IIA	P	AF	R-JI	אע	7,	JL - 38	P	€:	7 - DE	Eε
	day not	din	da	P-1-1	357	day	***	der	day	n1:	dan	da:	nı.	dsn
" occur ELRAB dets		9			0			Ü			0			5
', occur 2+ EL deta		9	!		0			0			G			9
ಗ್ರದ station h		384	i		381			386			38€			333
HVG station -H/fft		21	i		31			22			22			_1
AUG ste wried his	11 11	11	13	:2	12	8.4	9.2	8.:	11	10	19	12	12	:2

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMAP

Specified location: 7 12 N 100 36 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 48568 7 12 h 100 36 E

Radiosonde station height: 13 Feet

Surface obs source: #\$26 5 00 N 105 00 E

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM TOM RANGES:

FREQUENCY	TY	EARL	Y	J	AH-MI	AR .	A	R-JI	UN	J	ال- ك	EP	Ü	T-D!	Ξ(
	day	ការ	dtn	day	nit	din	day	nit	din	day	nıt	d&n	day	nıı	d: n
100 MHz	1	1	1	1	2	2	1	1	1	2	1	1	1	1	1
1 GHz	34	18	26	32	28	26	42	24	33	36	17	27	25	12	:9
3 GH2	43	26	34	48	_28	34	51	32	41	45	26	36	34	_18	_ 26
6 GHz	72	61	66	68	\$1	64	76	65	7:	77	66	72	66	50	, -
10 GHz	90	86	88	87	86	87	98	86	88	93	89	91	88	83	ĉ6
20 GH=	_95	94	94	93	_93	93	96	94	95	97	95	96	94	92	ė3

SUPFACE BASED DUCT SUMMARY:

PARAMETER	YE	ARL'		JI	ลห-หเ	AP	Ri	R-J	JH	J	JL-S!	P	90	T-DE	C
	day	nıt	d&n	dav	711	den	day	nit	dan	day	211	ಶರಿಗ	day	nit	de n
Percent occurrence	. 9	9	9	7	13	10	12	1:	12	12		10	5	4	- 5
AVG thickness Kft			.28	ĺ		.36	ĺ		. 25			.23			.27
AVG trap freq GHz			.76	l		. 66	1		1.1			.72	l		.58
AVG lyr and -N Yft			144			133			167			153			122

ELEVATED DUCT SUMMARY:

ELEVATED DOCT SOUNH															
PARAMETEP	Y	ARL'	Y	J	AN-M	AR	AI	PR-JI	JH_	J	JL-S	EP	01	T-D	EC
	dav	nıţ	dtn	day	ការ	d\$n	day	១១៩	din	dav	nit	din	<u> day-</u>	nit	dt n
Percent occurrence	10	6	S	24	12	18	7	5	6	_3	- 2	3	6	- 5	
AVG top ht Kft			5.3			5. ũ	İ		3.7	l		7.e			5.7
AUG thickness Kft			. 45	<u>L</u> .		_57			. 32	<u> </u>		.53	Í		. 54
AVG trap freq GKz			. 56			. 34			.72			.37			. 56
AVG lyn gnd -H/Kft			59	ĺ		57	ĺ		56	1		65	i .		58
AVG lyr base Kft			5.0	i		4.6	L		3.5			6.6	<u> </u>	_	5.4

E-HEOPATION DUCT HISTOGRAM IN PERCENT OCCUPPENCE:

PERCENT	GCCI	UPREMCE	Y 1	ERRL	r	J	AH-K	AR	l e	PR-JI	DH .	J	UL-Si	EP	- 01	CT-Di	EC
	_		da··	nit	d&n	day	N11	dan	day	nit	dan	day	nıt	d&n	dav	nit	ರಹಿಗ
0 10	10	Feet	2	_2	_2	4	3	4	2	1	1	ī	1	1	3	Ž	3
10 to	20	Feet	3	5	4	4	4	4	3	5	4	3	4	4	3	5	4
20 to	30_	Feet	6	8	_ 7	_ 6	. 8	7	_ 6	_ 9	7	4	7	6	6	9	3
30 10	40	Feet	8	11	9	9	12	11	7	9	8	Ē	8	-	10	14	-12
40 10	58	Feet	11	16	14	12	17	14	9	14	12	1:	15	13	13	18	15
50 to_	60	Feet	13	17	_15	12	17	14	_11	_15	13	14	18	16	14	17	16
60 to	70	Feet	11	13	12	18	11	11	9	12	11	12	15	13	12	12	ıž
70 to	80	Feet	7	8	8	7	8	7	6	8	7	و	9	ب	7	7	7
89 to	90	Feet	5	4	4	_ 4	4	_ 4	4	4	4	5	5	5	5	4	4
90 to	100	Feet	3	- 2	3	3	3	3	3	2	3	7	3	3	3	2	.
above	100	Feet	3.	14	22	29	14	21	39	20	29	32	14	23	23	9	16
Hean he	1941	: Feet	40	67	78	85	65	75	102	74	88	90	€8	21	86	59	ξĠ

GENERAL METEOPOLOGY SUNMAPY:

PARAMETER	YEAPL	Y	JF	น-หละ	A	PR-JU	H	J	UL - 51	EP	00	T-DE	C
	day nit	d&n	day	nit dan	day	nıt	den	das	011	din	day	110	3: -
% occur EL&SB dcts		1	1	- 2	i		1			9			0
% occur 2+ EL deta		1	1	2	Į .		1	!		U	[1
AVG station N		381	•	376	1		384	1		386	!		382
AVG station -H/Kft	i	19	Í	19	1		19			19			19
AVG sfc wind kts	11_11	_11	13	12 12	8.4	3.2	8.3	11	10	10	12	12	; >

Specified location:

3 88 N 95 88 E (+) INDICATES INSUFFICIENT DATA

Radiosonde source : 48681 5 18 H

100 16 E

10 Feet

Radiosonde station height: 5 88 N 95 86 E Surface obs source: MS27

PERCENT (DCCUPPENCE	0F E	<u>н</u> ини	CED '	SUPF	₩ĊΕ-	TO-5	URFA	CE P	PDAR	_E5M	CCM	FAR	GES:		
FRE	RUENCY	Y	EARL'	Υ —	J	AH-HI	AR.	A	PR-JI	UH	-31	JL- 51	ĒP	00	CT-DE	EC
L		day	nit	_d&n	day	กาเ	děn	day	nit	dŁn	day	nit	din	day	nit	dån
160	HHz	7	6	6	5	6	- 5	8	7	7	7	- 6	- 6	7	7	?
1 3	GHZ	51	35	43	53	34	44	51	37	44	45	32	39	53	36	44
L	GHz	62	46	54	_63	45	54	64	49	57	59	44	51	1 63	46	55
6	uHz	82	72	77	82	72	77	83	74	78	81	73	77	81	78	- 6
10	GHz	94	98	92	93	98	92	94	90	92	94	92	93	94	89	32
20	GHz	97	96	97	97	96	96	98	96	97	97	96	9.7	98	95	97

SURFACE BASED DUET SUMMARY:

PARAMETER	Y	EÄRL	Υ	Ji	H-4R	RR .	af	R-JI	אנ	Ji	JL-3!	P	00	T-D	C
l	day	n11	den	day	nıt	den	day	การ	din	day	nit	din	day	nit	dån
Percent occurrence	46	43	45	36	39	38	56	47	52	48	40	44	45	45	45
AVG thickness Kft			. 26	ĺ		. 28	ĺ		. 25			. 24			.26
AVG trap freg GHz	İ.		.73	Į.		.72			.72	i		.79			. 6 4
AVG lyn and -NYKft			. 81			82			78	i		81	l		83

ELEVATED DUCT SUNHARY:

PARAMETEP	Y	EARL	Y	J	าห-ห	RR T	AI	R-J	JH	J	IL-Si	ΕP	0	CT-DI	EC
	day	nit	din	day	ni <u>t</u>	den	day	n1t	din	day	011	dsn	day	nıt	dîn
Percent occurrence	10	9	18	20	15	18	8	12	:6	3	5	7	5	3	4
AVG top ht Kft			4.3	1		6.1	1		2.7			2.2			6.0
AYG thickness kft			.4€	,		. 49	ł		.48	,		. 49	}		.37
AVG trap freq GHz			. 47			.34			. 47			.29			.77
AVG lun grd -N/Kft	i		58	ł		59	l		56			59			59
AVG for base ift			3.9			5.7	L_		2.3			1.9	İ		5.3

EVAPORATION DUCT HISTOGRAM IN PERCENT ECCUPPENCE:

PEPCENT	OCCUPPENCE	Y	EARL'	Y	J	ก-แล	AR	Bi	R-JI	JH	Ji	UL-SI	ĒΡ	01	CT-DE	EC
		day	011	der	day	211	ರಕ್ಕ	day	711	din	ರತಿರಿ	nit	den	day	nii	din
9 10	10 Feet	1	1	1	2	1	2	1	1	1	2	1	1	1	1	1
10 to	20 Feet	3	6	5	3	5	4	4	7	5	3	5	4	2	7	4
20 16	30 Feet	6	9	8	5	9	7	7	10	8	6	7	£	i 6	10	8
30 10	40 Feet	8	11	10	7	10	8	9	10	16	ý.	11	16	7	13	:0
40 10	50 Feet	1.5	17	14	9	17	13	13	15	14	12	16	14	14	13	16
50_10	fd Feet	13	18	15	11	18	14	13	18	16	14	19	17	12	17	15
60 10	70 Feet	10	12	11	9	11	10	10	11	1:	11	13	12	9	11	19
70 to	80 Fee	7	7	7	6	7	7	7	7	7	8	7	?	5	6	
80 10	90 Feet	5	4	4	_ 4	_4	4	5	_4	4	ϵ	4	5	3	3	3
98 10	100 Fee*	3	2	3	3	2	2	3	2	3	3	3	3	3	1	2
above	100 Feet	33	13	23	41	15	28	28	13	21	25	13	19	36	13	24
Hean he	ight Feet	6.5	65	79	104	67	86	87	66	76	84	66	75	98	62	80

GENERAL HETEOPOLOGY SUMMAPY:

PARAMETER	YEARLY	JAH-NAR	APP-JUN	TUL-SEP	OCT-DEC		
	dan nii dan	day nie dan	day nit din	da 11 3% -	day nit den		
% occur ELESB dets	3	5	3	3	2		
". occur 2+ EL dets	1	2	1	9	9		
HVG station N	382	376	387	383	3ಕ್ಕ		
AGG station -N/Kft	19	18	28	20	19		
RIG sec und his	9.3 8.6 9.0	8.6 7.8 8.2	9.1 8.2 8.6	11 10 11	8.7 8.2 8.5		

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

5 88 N 95 00 E (+) INDICATES INSUFFICIENT DATA Specified location:

Padiosonde source : 43466 6 54 N 79 52 E

Radiosonde station height: 20 Feet

Surface obs source: MS28 5 00 N 95 00 E

PERCENT OCCUPRENCE	OF E	<u>нияни</u>	CED '	SURF	HCE+	70-SI	URFAI	CE R	ADRP	ESH	COM	S64	GES:	_	_
FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	dav	nıt	dan	day	nıt	d&n	day	nit	den	day	nit	d&n	day	nit	dtr
160 MHz	2	9	1	3	-0	1	3	0	2	2	. 0	1	2	Ä	1
1 GHz	44	12	28	54	11	32	39	11	25	34	18	22	48	16	32
3 GHz	56	21	38	64	19	42	53	20	36	48	21	34	59	22	46
6 GHz	82	63	72	84	61	73	82	66	74	88	67	74	81	59	70
18 GHz	94	88	91	95	87	91	93	88	91	93	91	92	94	96	90
20 GHz	97	94	9€	97	94	96	97	94	95	96	96	96	97	94	95

SURFACE RASED DUCT SUMMORY:

PARAMETER	YEARLY			JAN-MAR			APR-JUH			JUL-SEP			OCT-DEC		
	day	nıt	dŁn	day	n, t	đěn	day	กาเ	den	day	nit	d&n	dav	nit	ರಕ್ ಗ
Percent occurrence	21	0	16	21	9	11	27	0	14	13	9	7	21	e	_i i -
AYG thickness Kft	ľ		. 42	i		.23	ĺ		.19			1.8			.29
AVG trap freq GHz	l		1.2			. 95	İ		1.1			. 84	1		1.7
AVG lyn grd -N/Kft			512			181	İ		999		_	128			543

ELEVATED DUCT SUMMARY.

PARAMETER	YEARLY			JAN-KAR			APR-JUN			Ji	JL-SI	EP	OCT-DEC		
	dav	nıt	dtn	day	nit	din	day	nit	din	day	nit	den	day	nıt	Age,
Percent occurrence	8	9	4	14	8	7	4	Ð	2	9	0	5	4	9	2
AVG top ht Kft			6.0	i .		6.8			5.3	i		3.4	l		8.5
AUG thickness Kft			.56	l		.71	l		. 25			.67	ļ		.€3
AVG trap freq GH2			.89	ī		.39			1.4			1.5			.22
AVG lyr grd -N/Kft	ļ		197			93	1		107			168	l		62
AVG lim base Kft			5.7	Í		6.5	•		5.2			3.2	1		8.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE.

PERCENT OCCURRENC	E Y	YEARLY			JAN-MAR			APR-JUH			JUL-SEP			OCT-DEC		
	day	nit	din	day	nit	dan	day	nit	d&n	day	nit	ds n	da.,	nit	d r	
0 to 10 Feet	2	1	2	1	1	1	2	1	1	3	2	3	2	1	_ ī	
10 to 20 Feet	2	4	3	2	5	4	3	5	4	2	2	2	2	5	3	
20 to 30 Feet	4	6	5	4	- 8	6	4	- 6	5	3	5	4	_ 3	7	_ 5	
30 to 40 Feet	5	3	7	4	- 9	7	5	- 8	7	5	9	7	7	11	9	
40 to 50 Feet	9	16	12	ક	17	12	9	15	12	و	14	12	۰	16	15	
50 10 60 Feet	11	12	14	_ 8	18	_13	13	19	16	12	28	15	10	17	13	
60 to 70 Feet	10	15	13	8	14	11	13	17	15	13	16	14	8	12	: 0	
70 to 80 Feet	9	16	9	7	10	9	18	11	10	11	11	11	7	8	?	
80 to 90 Feet		6	6	6	5	6	7	6	7	8	7	_ 8	_ 5	4	5	
90 to 100 Feet	7-4	3	4	4	3	3	5	3	4	5	-	5	3	2	_ <u>3</u>	
above 100 Feet	37	12	25	48	11	30	36	11	20	29	10	19	43	16	29	
Hean height Feet	100	66	83	114	64	89	91	65	78	88	64	76	107	68	38	

GENERAL METEOPOLOGY SURMAPY:

PARAMETEP	YEARLY			JAN-MAR			APP-JUN			JUL-SEP			OCT-DEC		
	da-r	111	din	dan	211	dên	day	nit	dŧn	day	ni:	din	dau	nit	Ci.
% occur ELASB dets			2			2			Ð			2	_		
% occur 2+ EL dcts			2	1		4			9			Ž	1		a
AVG station N			387	l		384			390			387	ļ		389
AVG station -N/Kft			20	l		19			20			20	l		20
AVG sec wind Kis	12	12	12	10	9,3	9.4	13	12	12	16	15	15	11	10	_11

Specified location:

Radiosonde source: 43353 9 55 N

(*) INDICATES INSUFFICIENT DATA

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76 13 E 9 55 N 76 13 E

Radiosonde station height: 18 Feet 75 09 E Surface obs source: MS29 5 60 H

PERCENT OCCURPENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM PANGES:

PATERIA DECONTENCE	· -			, , , , , , , , , , , , , , , , , , , 		<u>, , , , , , , , , , , , , , , , , , , </u>	317								
FREQUENCY	Y!	EARL'	·	Ji	an-H	RR	Ai	PR-JI	JH	5	JL-Si	P	- 01	CT-DE	EC
	day	nıt	den	day	nit	<u>d&n</u>	day	nit	đ&n	day	nit	dår	day	nıt	din
100 MHz	1	2	2	2	2	2	1	3	2	1	1	1	1	4	2
1 GH2	45	20	32	54	21	38	42	20	31	37	14	25	46	24	35
3 GH=	55	28	_ 41	64	29	46	54	30	42	47	20	34	55	32	44_
6 GHz	80	62	71	85	61	73	81	67	74	75	56	őő	78	63	70
10 GHz	92	86	89	94	84	89	93	89	91	89	85	87	92	98	89
20 GHz	96	93	94	98	93	95	97	94	96	93	92	92	96	93	94

SUPFACE BASED DUCT SUMMARY:

PARAMETER	Y	ARL'	7	J	คห-หเ	AR	Al	-R-J(ИN	31	JL-Si	P	Ot	T-DI	EC
	day	n11	dan	day	nit	din	day	nıt	d&n	day	nit	dan	day	nit	d&n
Percent occurrence	7	13	10	11	11	11	4	16	10	5	6	- 6	6	20	13
AVG thickness kft			.35	l		. 40			.2€	İ		.38			. 36
AYG trap freq GHz			.49	ı		.36	1		. 57	!		.58			.47
AVG for grd -N-Kft			161	<u> </u>		157			161			170			156

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARLY	/	J	AK-M	RR	AI	R-JI	ŲΝ	Jt	JL-SI	F	01	CT-DI	EC
	day	nit	dan	day	การ	dån	day	nit	der	day	กาเ	otr	day	nıt	dt n
Percent occurrence	6	10	- 8	9	14	12	6	10	8	1	9	7	6	- 5	
AYG top ht Kft			7.1			4.4			11	1		7.0	l		5.7
AUG thickness Ift			.60	1		.41			.50	l		.79	l		.70
AVG trap freq GHz			.34			.63			.30			.20			. 23
AVG lun gnd -N/Kft			67	1		5?			66	ì		75	į		69
AVG lun base Kft		_	6.7	L _		4.1				ł		6.6	[5.3

EMAPOPATION DUCT HISTOGRAM IN PEPCENT OCCUPRENCE:

PERCENT OF	CURRENCE	Y.	EARL	1	J	AH-M	BR	Ri	PR-J	ÜH		UL-S	ËP	00	T-DE	EC
		đa;∙	r. 12	din	day	nıt	dŁn	day	n11	d&n	day	การ	den	day	nıt	d&n
0 to 19	Feet	3	2	3	1	1	1	3	2	2	5	4	- 5	2	2	2
10 to 20	Feet	2	5	4	2	7	4	1	4	3	3	4	3	2	7	4
20 10 30	Feet	4	8	6	4	10	7	4	7	5	4_	8	6	4	8	6
30 10 40	Feet	5	11	8	7	10	7	5	11	8	6	13	10	6	11	9
48 to 56	Feet	8	16	12	6	16	11	8	14	11	9	17	13	ءِ	17	13
58 10 66) Feet	9	17	13	9	17	13	10	18	14	بو	17	13	9	17	13
60 to 70	Feet	10	12	11	9	11	:0	10	15	12	11	12	12	8	12	10
78 : 0 86	Feet	7	8	8	6	7	7	8	10	ç	8	8	8	ē	?	7
38 10 46	Feet	6	5	5	_5	4	5	7	- 6	6	6	4	5	5	4	5
99 to 19	0 Feet	4	2	3	4	2	3	5	3	4	4	2	3	3	2	3
above 16	8 Feet	42	12	27	50	14	32	41	11	26	35	10	23	44	12	28
Hean here	ht Feet	167	63	_ 85	:18	65	92	106	65	85	95	69	78	108	62	85

GENERAL METEOPOLOGY SUMMARY:

PAPAHETEP	YEAPLY	JAN-HAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit din	day nit din	dau nit den	dau nit den
% occur ELSSB dc: s	0	1	Û	Ú	1
% occur 2+ EL dcts	0	1	0	8	6
AVG Station H	381	375	387	384	379
AVG station -N/Kft	19	19	19	18	19
AUG afe wind tra	11 10 10	8.7 7.8 8.2	11 11 11	13 12 12	10 10 10

HISTORICAL PROPAGATION CONDITIONS SUMMARY

IREPS REV 2.1

Specified location:

6 54 H 79 52 E 79 52 E (+) INDICATES INSUFFICIENT DATE

Radiosonde source: 43466 6 54 N Radiosonde station height: Surface obs source: MS29

28 Feet

5 88 N 75 98 E

DEDICAT OCCUPRENCE OF ENGANCER CURRENCE-TO_CURRENCE DARGE COM CAM DANCEC.

FREQUENCY	Y	EARL	Y	J	AN-M	RR	AI	PR-JI	אט	Jı	JL-5!	ΕP	0	CT-DI	EC
	day	nit	den	day	nit	d£n	day	nit	_d&n	day	nit	dan	day	nit	ds n
100 MHz	2	. 0	1	3	9	i	3	0	2	2	9	1	2	8	1
1 GHz	48	12	30	55	14	35	49	11	38	40	10	25	48	12	38
3 GHz	59	19	39	66	21	43	61	28	49	59	16	33	58	18	38
6 CH2	82	56	69	86	56	71	84	61	73	76	54	65	88	54	€7
19 CHz	93	84	89	95	82	89	94	87	98	98	84	87	93	63	83
20 GHz	96	92	94	98	92	95	97	93	95	94	92	93	96	91	94

SUDFACE RASED DUCT SUHMARY.

PARAMETER	Y	ERRL	Y	_ 5	H-H	1R	A)	R-J	HU	Jı	JL-SI	P	01	CT-DE	:C
	day	nit	d&n	day	nit	d&n	day	nıt	din	day	nit	d&n	day	nit	d: a
Percent occurrence	21	0	10	21	. 0	11	27	- 0	14	13		7	21	0	11
AVG thickness Kft			.42	l		.23	l		.19	i		1.0	l		.29
AVG trap freq GHz			1.2			.95	1		1.1			.84	ł		1.7
AVG 1 grd -N/Kft			512			181			999			128			543

FLEVATED DUCT SUMMRPY:

PARAMETER	Y	EAPL	·	Ji	H-HE	R.	A	R-J	אנ	JI	JL-SI	P	00	CT-D	ΕĈ
	dav	nit	dŁn	day	nit	dŧn	day	nit	der	day	11	442	₫ay•	nit	d:n
Percent occurrence	8	9	4	14	0	7	4	8	2	9	0	5	4	- 0	2
AVG top ht Kft	l		6.0	l		6.8			5.3	i		3.4	ì		8.5
Aug thickness ift			.56			.71			. 25	1		.67	1		. 60
fivG trap freq GHz			.89			.39			1.4			1.5			.22
AVG lyr gra -N Kft	İ		197	1		93	l		107	l		168	i .		€2
AVG for base Ket	İ		5.7	l		6.5			5.2	i		3.2	l		8.0

E"APORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT OCCU	PRENCE	71	HRL'	Y	3	RK-M	a R	AF	R-J	JN _	71	FL-5	Р	00	T-DE	:c
		day	P1 1 E	dtn	day	nıt	der	day	nit	<u>dî</u> n	day	nıt	din	day	nıs	dz.
0 to 10	Fzet	3	2	3	1	1	1	3	2	2	5	4	- 5	2	2	_ ≥
10 to 20	Feet	2	6	4	2	7	4	1	4	3	3	4	3	2	7	4
20 to 30	Feet	4	8	6	4	10	7	4	7	5	- +	8_	6	_ 4	- 8	£
30 to 40	Feet	5	11	8	7	16	7	5	11	8	5	13	10	6	11	ે ક
48 to 50	Feet	8	16	12	6	16	11	8	1 ÷	11	9	17	13	وا	17	13
_ 50 ±0 €0	Feet	9	17	13	9	17	13	10	18	14	٩	17	13	9	17	13
68 to 78	Feet	10	12	11	9	11	10	10	15	12	11	12	12	8	12	10
78 to 88	Feet	?	8	8	6	7	7	8	10	٠	8	8	8	6	?	7
88 10 98	Feet	6	5	5	5	- 4	5	7	ő	6	_ 6	. 4	5	5	4	5
90 to 100	Feet	4	2	3	7	2	3	5	3	4	4	2	3	3	2	3
above 188	Feet	42	12	27	58	14	32	41	11	25	35	10	23	44	12	_3
Hean height	Feer	107	53	85	118	65	92	106	65	85	95	- 60	78	108	62	3.5

GENERAL METEOPOLOGY SUNHARY:

PARAMETER	YEARLY	JAN-MAP	APR-JUH	JUL-SEP	CCT-DE.
L	day nit din	day nit dan	day nit din	day nit dan	day nit d'e
% occur ELESB dets	2	2	0	2	4
% occur 2+ EL dcts	2] 4	i ૭	2	0
AVG station N	387	384	350	387	398
RVG station -N/Kft	20	19	28	20	20
AVG sfc wind kis	11 10 10	8.7 7.8 8.2	11 11 11	13 12 12	18 18 18

76 57 E (+) INDICATES INSUFFICIENT DATA Specified location: 8 28 N

Radiosonde source: 43371 8 28 N 76 57 E

Radiosonde station height: 210 Feet 5 68 N

Surface obs source: NS29 75 99 E

PEPCENT OCCUPPENCE OF ENPANCER SUPERCE-TO-SUPERCE PARAP ESH COM REGICES:

FREQUENCY	YI	EARL'	Y	J	N-M	AR .	A	PR-JI	JN	Jt	JL-S	EP	01	CÎ-DI	EÜ
	day	nit	d&n	day	nıt	<u>d&n</u>	day	nit	dan	dav	n11	dtn	day	nit	din
100 HHz	8	1	8	8	1	1	8	0	9	0	0	0	1	1	
1 GHz	43	14	28	50	18	34	42	12	27	35	11	23	45	14	23
3 CHz	53	21	37	60	25	43	53	21	37	45	17	_31	<u>5</u> 4	_ 21	38
6 GHz	79	58	68	83	59	71	81	62	71	74	55	64	77	56	57
10 GHz	92	85	88	94	84	89	93	87	90	89	34	8€	92	34	કક
20 GHz	96	92	94	98	93	95	97	93	95	93	92	92	96	91	24

SURFACE PASED DUCT SUMMARY.

PARAMETER	Y	EARL	,	J	คิท-ห	AR	Af	R-JI	ijΗ	J	UL-S!	EP	09	CT-D	Eu
	day	n:	din	day	nit	d£n	day	nit	dan	day	nit	de4	day	nit	dtn
Percent occurrence	3	5	4	2	9	6	4	3	4	8	3	2	6	5	- 6
AVG thickness Kft	•		.47	1		. 16	ļ		.84			.49)		.40
AVS trap freq GHz			1.7			1.6	i		1.2			2.8	ł		1.1
AVG lun grdH/Kf+			235			292	1		182	l		282	1		183

FIEVATED DUCT SUMMARY.

PARAMETEP	Y	ERPLY	Υ	J	AH-M	AR	Af	FR-JI	UH	7.	JL - 31	F -	-00	T-DI	ĒČ
	day	DIE	din	day	nit	den	day	nıı	dtn	day	r. 7 %	430	day	nıt	dan
Percent occurrence	6	- 5	5	8	5	7	6	5	- 6	5	4	5	7	5	5
RVG top ht ift			7.1	1		5.4	1		7.8	}		9.3	İ		5.9
AUG thickness Kft	Ĺ		. 53	[. 52	į		. 30	ı		. 40			.88
AVG trap freq GHz	Γ		.57			.38			.68			1.1			. 10
AVG lyr grd -H/kft			65			58	1		56			68			89
446 lim base Fft	l		6.8	ļ		5.0	l		7.6	i		9.1	1		5.5

EMAPORATION DUST HISTOGRAM IN PERCENT OCCURRENCE:

PEPCENT OCCU	PENCE	'nΈ	APLY	,	J	AH-H	19	AF	R-J	JN	Ji	ر- Si	P	Ú	. T - DE	C
		33.	nit	dtn	day	nit	din	day	nit	din	dau	r. 1 1	dan	đa:	nıt	dtr
0 to 10	Feet	3	2	3	1	1	1	3	2	2	5	4	5	2	2	_3
10 to 20 i	reet	2	6	4	2	7	4	1	4	3	3	4	3	2	7	4
20 10 30 3	Feet	4.	. 8	- 6	4	10	7	4	7	5	4	ક	- 6	-	8	દ
20 to 40	Feet	- 5	11	8	4	10	7	5	11	8	6	13	10	6	11	9
+9 to 59 i	Fee:	8	16	12	ε	16	11	8	14	11	Ģ	17	13	9	17	13
50 10 60	<u> e</u> e 1	9	17	13	9	17	13	10	18	14	à	1-	13	9	17	13
60 to 78	eet	10	12	11	9	11	10	10	15	12	11	12	12	8	12	10
79 to 89 1	eet .	7	8	8	6	7	7	8	10	9	8	8	8	ε	7	•
80 to 90 I	Feet	- 6	_ 5	5	5	4	5	7	6	5	-	4	5	5	4	5
90 to 160 l	Feet	4	2	3	4	- 2	3	5	3	4	4	2	3	3	2	— <u>5</u>
above 188 l	Feet	42	12	27	50	14	32	41	11	25	35	10	23	44	12	28
Mean height	Feet	107	€3	85	118	65	42	:05	65	85	95	50	78	103	62	

GENERAL METEOPOLOGY SUMMAPY:

PAPAMETER	YEARLY	JAN-MAR	AFP-JUN	TUL-SEP	OCT-DEC
	dau nit de	dau nie den	day nit de-	da nit dtr	day nit dan
" occur ELESB deta		0	Ů	v	9
". occur 2+ EL dcts){	1	9	0
AVG station N	37	368	384	378	37.4
AVG station -H/Kft	1	19	28	19	19
AUG afe wind kis	11 10 1	9.7 7.8 8.2	11 11 11	13 12 12	10 10 10

HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 00 N 65 00 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 41356 0 40 S 73 10 E

Radiosonde station height: ? Feet

Surface obs source: MS30 5 00 N 65 00 E

DEDIENT ACCUIDMENTE OF ENHANCED SUBFOCE-TA-SUBFOCE DATION FOR CON DANCES.

Checkin Occoret											<u> </u>	4	<u> </u>		
FREQUENCY	Y	EARL	Ϋ́	J	H-HA	R.	A	R-JU)H	70	JL-SI	P	O.	CT-DE	EÇ
	day	nit	d&n	day	nit	dan	day	nit	dŁn	day	nit	dån	day	ni t	din
100 MHz	5	- 8	2	5	0	3	5	0	3	5	8	2	4	-0	2
1 GHz	54	14	34	59	14	36	50	9	30	56	16	36	52	15	33
3 GHz	67	22	45	72	21	47	63	20	42	70	28	49	61	21	4:
5 GHz	88	65	77	90	65	77	99	71	80	90	78	80	83	57	70
10 GHz	96	88	92	97	99	93	97	88	92	97	98	94	94	85	93
20 GHz	98	95	97	99	96	97	99	96	97	98	96	97	98	93	95

があるというできないのでは、これでは、これできないできない。 これがない ないない ないない ないない ないない ないない これのできない 100mm

SUPFACE BASED DUCT SUMMARY:

IREPS REV 2.1

PARAMETER	YER		J	AH-M	R.	ai	-R-JI	ЙĤ	J	JL-SE	Ρ	00	T-P	C
	day n	it dån	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	dt n
Percent occurrence	33	e 16	37	Э	19	32	- 0	16	37	0	19	24	- 8	14
RVG thickness Kft	1	.27	1		.25	ĺ		. 29			. 25			.31
AVG trap freq GHz	1	.69	l		.81	ľ		.52	1		.85			.€७
AVG lyr grd -H/kft	L	111			121		_	103			103			118

ELEVATED DUCT SUKHARY:

PARAMETER	71	EARL	7	J	H-HA	R	- AI	PR-JI	UN	J:	JL-SI	EP	0	CT-DI	EC
	day	กเร	d&n	day	การ	din	day	nit	din	dav	១11	din	day	nit	dをn
Percent occurrence	10	8	- 9	11	33	22	8	6	4	7	6	4	13	0	7
AVG top ht Kft			5.8	Í		3.0	l		8.1			8.1	1		4.1
AVG thickness Kft	l _		.38	l_	_	.57		_	. 30	1		.29	1		.38
AVG trap freq GHz			.86			.29			1.2			1.4			~.:
AVG lyr grd -N/Kft	l		58	ŀ		69	ŀ		56			56	ļ		58
AVG lyr base Kft	I		5.5	(2.5	[7.9	l		7.9	ĺ		3.8

E-APORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCU	PRENCE	YE	ARL	7	31	AH-HI	R.	AF	R-J	JH	J	JL-S!	P	00	7 - DE	c
l			day	nit	din	day	nit	dţn	day	nit	din	day	017	din	day	nit	dt n
0 to	10	Feet	1	1	1	1	1	1	1	1	1	2	1	1	2	1	1
10 to	20	Feet	1	4	3	1	4	2	1	3	2	1	3	2	1	6	4
20 to	30_	Feet	<u>3</u>	7	5	_ 2	7	4	_ 3	8	5	2	5	4	4_	_ 8	6
30 to	40	Feet	4	ġ	6	2	9	6	7	7	5	3	8	5	6	11	9
48 to	50	Feet.	7	:4	11	7	16	11	7	19	9	7	13	10	8	17	. 3
50 10	60	Feet	10	18	14	10	19	14	11	21	16	9	16	12	10	17	13
60 to	70	Feet	10	15	13	9	16	12	13	18	16	10	16	13	19	11	10
78 10	80	Feet	8	10	9	7	9	3	11	12	12	8	16	9	7	9	8
80 10	98	Feet	7	õ	. 7	8	5	6	9	7	8	3	7	8	5	4	5
98 to	130	Feet	4	3	4	5	3	4	4	3	4	- 5	- 5	5	3	2	- ₹.
above	138	Feet	44	14	29	48	14	31	37	9	23	45	16	3:	44	15	29
_Hean he	ight	Feet	109	68	89	117	- 59	93	103	65	94	109	72	91	108	66	ŝ.

GENERAL METEOROLOGY SUMMARY:

PARAHETER	YEARLY	JAN-HAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit din	day nit dan	dav nit den	day nit d'i
% occur EL&SB dcts	2	2	2	1	5
% occur 2+ EL dcts	1	1	1	0	3
AVG station N	383	381	384	386	381
AVG station -H/Kft	20	19	20	21	: 9
AVG sic wind Kis	11 10 18	19 8.7 9.1	11 10 10	14 12 13	9.2 8.: 2.6

Specified location: 5 00 N 55 00 E (+) INDICATES INSUFFICIENT DATA Radiosonde source: 40597 13 22 N 45 03 E

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Radiosonde station height: 10 Feet Surface obs source: MS31 5 00 N 55 80 E

PEPCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUE	HCY	Y	ARL	4	30	AH-HA	iR -	AF	PR-JI	JH.	31	JL-S!	EP	0:	CT-DI	EC
		dau	nit	d&n	day	7:11	din	day	nit	dan	day	nıt	dsn	CZL	nit	de n
100 HH	z	3	5	4	2	2	2	8	- 8	- 8	2	6	4	2	4	3
1 GH	z	46	25	35	51	15	33	55	37	46	28	26	27	49	23	36
3 GH	2	58	37	48	64	27	45	_68	51	69	48	38	33	59	34	45
6 GH	2	31	70	75	87	67	77	87	88	84	70	68	69	80	65	72
10 GH	z	91	98	91	95	92	93	94	92	93	83	87	86	91	88	98
20 GH	2	95	95	95	97	96	96	97	96	96	98	63	91	95	94	95

SUPERCE RASED DUCT SUMMARY:

PARAMETER	Y	ARL	7	3	א-ווף	AR	AF	R-J	אנ	3	JL-SI	P	01	T-DI	C
	day	nıt	din	day	111	den	day	nit	den	day	nit	den	da∵	213	den
Percent occurrence	21	31	26	16	13	15	43	45	44	14	39	27	11	26	19
AVG thickness Kft			.48	Ì		. 40			.61	Į.		.49	l		. 42
AVG trap freq GHz	!		.73			1.1			.49	i		.69			.61
AVG lyr grd -N/Kft	i		143	_	_	119	_		119	1		113			513

ELEVATED DUCT SUMMARY:

PARAMETEP	Y	EAPL'	ř	J	H-HE	R .	A	R-JI	УŔ	Jt	JL-SI	P	ŏ	T-DI	EC_
:	day	nıı	din	day	011	den	day	nit	dtn	day	nit	den	day	711	den
Percent occurrence	31	34	33	42	56	49	40	31	36	11	19	15	31	30	3:
AVG top ht Kft			3.0	i		3.6			2.3			3.4	ł		2.8
AVG thickness Eft			. 62		_	. 62			. 75			.60	ł		.52
AVG trap freq GHz			.26			.26			. 14			.38			. 23
AVG lyr grd -N/Kft			62			62			68			5€			61
AVG for base Kft	i		2.6	:		3.2			1.8			2.9	Ī		2.5

EVAPORATION DUCT HISTOGRAM IN PEPCENT OCCUPPENCE:

PERCENT OCCU	REHCE	YEARL'	Y	J	H-HE	R	Al	R-J	111	J.	JL -S	ΕP	GC	T-DE	
	da	y nit	den	day	011	den	day	211	den	day	F 1 2	den	day	nit	den
9 to 10 f	eet	4 3	3	2	5	2	2	2	2	8	6	7	3	2	2
18 to 28 f	eet	3 5	4	1	3	2	2	6	4	4	5	4	3	6	4
20 to 30 f	eet	4 7	ş	_2	5	4	_ 5	- 6	5	5	- 3	7	4	9	د
30 to 49 f	eet	6 ::	8	4	10	7	5	9	7	8	12	10	5	11	8
40 to 50 f	Feet	7 16	12	6	18	12	6	12	9	9	17	13	8	18	13
50 to 60 f	Feet 1	0 18	1 4	8	19	14	_ 9	18	13	1.3	19	1€	9	18	13
60 to 70 f	eet	9 13	11	9	14	11	11	15	:3	10	13	11	8	12	10
70 to 90 f	Feet :	8 10	9	8	11	18	9	13	11	11	è	16	6	8	7
80 to 90 F	Feet	7 5	6	?	_6	7	7	. 7	7	7	_ 4	- 6	6	4	- 5
90 to 100 f	eet	5 3	4	5	4	4	6	4	5	4	2	3	4	3	3
above 100 F	Feet 3	8 8	23	4?	9	28	36	9	23	22	5	13	45	9	27
Hean height	Feet 9	9 59	79	114	63	88	98	63	81	74	52	6?	189	59	84

GENFRAL HETEOROLOGY SUNHARY:

PARAMETER	YEARL	7	JA	ห-หล	F	AP	R-JI	ш	J;	JL-SE	P	C	CT-DE	EÇ
	day not	din	dau	011	<u>dên</u>	day	nst	den	dave	211	din	da-	nit	d‡n
% occur EL&SB dcts		4			2			7			3			3
. occur 2+ EL dcts		5			7			9	İ		1			2
AVG station N		371	1		360			386			375			363
AVG station -N/Kft		22	ŀ		19			27			20	l		28
AVG sfc wind Kis	15 14	14	13	13	13	14	14	1-4	56	20	50	11	11	11

HISTOPICAL PROPAGATION CONDITIONS SUMMAPY IPEPS REV 2.1

4 81 H 9 42 E Specified location: Radiosonde source : 64918 4 81 N 9 42 E

33 Feet Radiosonde station height:

Surface obs source: HS36 5 60 H 5 88 E

PERCENT OCCURPENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

CHECKIN OCTOM CHEC															
FREQUENCY	-Y	ERRL	Y	J	AH-HI	R.	Al	PR-JI	JH	J	JL-S!	EP	(C	CT-DI	EC
	day	nit	d&n	day	nit	dan	day	nıt	d&n	day	nit	dan	day	nit	dan
100 HHz	3	4	4	1	6	4	4	5	5	2	2	2	3	4	3
1 GHz	37	25	31	42	38	40	35	28	32	24	12	18	46	23	34
3 GHz	43	31	37	50	46	48	42	35	38	31	15	23	51	28	39
6 GHz	69	54	61	75	67	71	70	64	67	57	35	46	74	48	61
18 GHz	90	86	88	92	90	91	92	98	91	86	79	82	92	85	દ ર
20 GHz	96	94	95	95	94	95	96	95	96	95	91	93	97	95	э́ь

(*) INDICATES INSUFFICIENT DATA

PARAMETER	_	EARL'	Y	Ji	ak-M	AR	A	PR-J	JN	J	JL-SI	ΕP	0	T-Di	ΕΓ
	day	nıt	d&n	dau	nıı	dan	day	nit	d&r	day	nit	dan	dav	nit	dşn
Percent occurrence	15	25	20	8	38	23	22	28	25	13	12	13	18	21	28
AYG thickness Kft			.36	1		. 38	l		.36	į		. 39			. 32
AVG trap freq GHz			. 47	1		. 55	l		. 44	l		.43			.48
AVG lur grd -N/Kft	L		98			_89	l		83	_	_	92		_	95

PARAMETER	Y	EARL'	Y	J	AH-H	AR	A	PR-JI	ÜH	J	UL-S	ΕP	0	CT-DI	EC
	day	nit	din	day	nit	ರ೩೧	day	nit	d&n	day	ការ	dŁn	day	nıt	_d&r
Percent occurrence	11	13	12	19	22	21	11	10	11	7	7	-6	10	12	11
AVG top ht Kft			4.7	1		5.1	1		3.4			5.0	İ		5.2
AVG thickness Fft_			. 50	l_		- 60			. 44			. 47	l		. 48
AVG trap freq GH2			.43			.27			. 59			.39			.48
AVG lyr grd -N/Kft			56			56			53			ક્દ			59
AVG lyr base Kft			4.3	_		4.6			3.0			4.6			4.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT C	CCURRENCE	Υ!	EARL	r -	J	คห-ท	AR .	_ Ai	PR-JI	JH	J	UL-SI	ΕP	0	T-DE	ĘÇ
		day	nit	din	dav	nit	d&n	day	nit	din	day	nit	dån	day	nit	đ٤
0 to 1	10 Feet	2	2	- 2	3	1	-2	1	2	2	3	2	2	2	1	2
10 to 2	28 Feet	3	6	4	2	7	4	ĺЗ	6	4	4	7	6	2	5	3
29 10 3	30 Feet	6	18	8	_ 4	7	5	_6	7	6	10	14	12	E	13	16
38 to 4	ið Feet	18	17	13	6	12	9	10	11	11	14	24	19	9	20	15
48 to 5	50 Feet	15	24	20	12	23	17	17	24	21	18	24	21	12	26	15
50 10 6	0 Feet	14	17	15	13	_18	_ 15	16	23	19	15	_ 12	14	1:	_15	13
60 to 7	O Feet	9	7	8	9	8	-8	10	9	9	10	7	3	9	5	7
78 to 8	80 Feet	6	4	5	6	3	4	7	7	7	5	3	4	7	3	5
80 10 9	0 Feet	3	2	2	_6	3	4	3	1	2	_3	. 0	2	2	2	2
98 to 1	88 Feet	2	1	<u></u>	2	8	1	2		2	2	0	1	1	1	1
above 1	100 Feet	29	11	20	38	18	28	23	: 1	17	16	4	16	39	18	. 4
Hean her	ght Feet	86	58	72	102	_69	_ 86	78	61	70	66	45	55	109	55	7.

CENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY	JAH-HAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit din	day nit den	day nit dan	day nit dan	day nit din
% occur EL&SB dcts	5	5	2	8	2
% occur 2+ EL dcts	1	3	1	8	1
AVG station N	383	383	384	381	383
AVG station -N/Kft	18	18	18	17	18
A-G sfc wind kts	9.2 8.5 8.9	8.2 7.5 7.8	10 8.3 8.9	11 10 11	8.1 7.8 7.9

Specified location:

6 33 N 3 21 E

(+) INDICATES INSUFFICIENT DATA

Radiosonde source : 65202 6 33 N

Radiosonde station height: 62 Feet Surface obs source: MS36 5 00 N

PERCENT OCCURPENCE OF ENHANCED SURFACE-TO-SURFACE PADAP ESM CCM PANGES:

FREQUENCY	Y	EARL	Y	Ji	H-HF	R R	Af	R-JI	JK	31	JL-58	P	C	CT-DE	EC
	da	nit	den	day	nıt	d&n	day	nit	dan	day	nt	den	day	nít	d&n
100 HHz	2	0	1	3	2	3	1	9		1	9	1	3	9	
1 GHz	35	12	24	46	24	35	27	11	19	21	4	13	46	18	28
3 GH=	42	15	_ 29	56	30	43	34	13	24	28	5	17	51	12	32
6 GH±	69	42	56	79	56	68	65	51	58	56	27	42	75	35	55
18 GH2	98	83	86	93	87	98	98	86	88	86	76	81	92	81	87
20 GH±	96	92	94	96	93	94	96	93	95	95	90	92	97	94	96

5 80 E

SUPFACE BASED DUCT SUMMAPY:

SUPPRIE BROED DULL	וחוועיי	MP ()													
PARAMETER	Y	EARL'	7	J	ลห-หล	R	Ai	PR-J	ИŲ	J	JL-SI	EP _	00	CT-D1	EC
	day	nit	den	Cay	n11	din	day	nit	<u>d&n</u>	dav	ni t	den	dav	015	den
Percent occurrence	19	4	11	28	17	23	10	0	- 5	14	9	7	22	9	11
AYG thickness Kft	l		.29	!		. 18	l		. 25	l		. 44	l		.31
MVG trap freq GHz			1.1	1		1.2			.84			1.5	•		.20
AVG lyn and -Halft	L		132			117			106	L		213			91

ELEVATED DUCT SUNHARY:

ELEANIED DOC. SOURCE															
PARAMETER	Y	EARL'	Υ —	3	86-86	BR	a	R-J	UN	31	UL-SI	EP	00	CT-DI	EC
	dav	nit	din	day	זיח	den	day	การ	d&r	da	nit	dan	day	nit	ರಷ್
Percent occurrence	20	- 5	14	32	17	25	16	- 6	8	13	9	11	18	8	13
AVG top ht Kft	i		5.2	Ì		5.2	l		4.9			5.9	l		4.8
Auf thickness Kft	L		. 48	<u> </u>		. 43	Í		.34			.36	[. 45
AYG rap freq GHz			.62	!		.60	i —		.90			.53			.47
AVG lyr grd -H/Kft	Ì		58	i		56	1		54			64	l		56
AUG for base Kft	l		4.9	1		4.8	1		4.6	!		5.7	l		4.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPPENCE:

PEFCENT	occ:	RPENCE	YE	APL:	· _	JI	H-HF	AR .	A	R-JI	jt4	Ji	IL-SE	P	00	T-DE	EC
			day	nit	den	dav	nıt	dşn	day	nit	dan	day	nit_	dan	day	nit	dan
0 to	10	feet	2	2	2	3	1	2	1	2	2	3	2	2	2	1	2
19 to	20	Feet	3	6	4	2	7	4] 3	6	4	4	7	6	2	5	3
28 10	२0	Feet	€	_10	8	4	7	5	6	7	£	10	14	12	6	13	10
30 to	40	Feet	10	17	13	6	12	9	10	11	:1	14	24	15	9	20	15
48 10	50	Feet	15	24	28	12	23	17	17	24	21	18	24	21	12	26	19
50 10	66	Feet	14	_17_	15	13	18	15	16	23	15	15	12	14	11	15	13
50 to	70	Feet	9	?	3	9	8	8	10	9	9	10	7	ક	9	5	7
70 to	88	Feet	6	4	5	6	3	4	7	7	7	5	3	4	7	3	5
88 10	90	Feet _	3	2	_ 2	6	3	4	3	1	ź	3	9	2	2	2	4
98 10	100	Feet	2	1	1	2	0	1	2	1	2	2	0	1	1	1	_ ī
above	199	Feet	29	11	20	38	18	28	23	11	17	16	4	10	39	10	24
Hear he	· ght	Feet	86	58	72	102	69	86	78	61	76	65	45	55	160	55	77

GENERAL METEOPOLOGY SUMMARY:

PARAMETER	YEARLY	JAN-HAR	APR-JUN	JUL-SEP	OCT-DEC
	dan nit din	dau nit den	day nit din	da nit dan	day nit din
- occur EL&SB dcts	3	5	1	2	3
% occur 2+ EL dcts	2	3	1	1	3
AVG station N	380	376	382	379	382
AVG station -H/Kft	17	16	16	17	19
AVG sec used his	9.2 9.5 8.4	8.2 7.5 7.8	18 8.3 8.4	11 10 11	8.1 7.8 7.9

HISTORICAL PROPAGATION CONDITIONS SUMMARY

IREPS REV 2.1

Specified location:

5 00 N 5 00 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 65202 6 33 N

3 21 E

Radiosonde station height: 62 Feet Surface obs source: MS36

5 99 N 5 00 E

DEPCEUT OCCUPARME DE ENMOUTER SUPERCE-TA-SUPERCE PARAD ESM CAM DANCES.

PERCENT OCCURRENCE	UP E	INDAN	LED	SURF	HE E -	10-31	UKPRI		חערר	E 211	C 074	RHIT	<u> 323.</u>		
FREQUENCY	Y	ERRL'	Y	31	AH-HI	RR	A.	R-J	ИU	Jı	JL-ŠI	EP	0	CT-DE	EC
	day	nıt	d&n	day	nit	dkn	day	nıt	dŁn	day	nit	d&n	day	nıt	ರಕ
100 MHz	2	Ð	1	3	2	3	1	- 0	1	1	0	1	3	0	
1 GHz	35	12	24	46	24	35	27	11	19	21	4	13	46	10	25
3 GHz	42	. 15	29	56	30	43	34	13	24	28	5	17	51	12	32
6 GHz	69	42	56	79	56	68	65	51	58	56	27	42	75	35	2.5
18 GHz	90	83	86	93	87	90	90	86	88	86	76	81	92	81	87
20 GHz	96	92	94	96	93	94	96	93	95	95	90	92	97	94	- 36

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARL	Y	Ji	ลห-หเ	₹R	AF	R-JI	JH	3	JL-SI	EP	0	CT-DI	EC
	da nit	d&n	day	nit	d&n	day	nit	dŁn	day	n·t	d&n	day	nit	dtn
Percent occurrence	19 4	11	28	17	23	18	- 6	5	14	- 6	7	22	0	1:
AVG thickness Kft		.29			.18	i i		.25	i		. 44	l		. 31
AVG trap freq GHz		1.1	l		1.2			.84			1.5	ļ		.89
AVG lyr grd -N/Kft		132			117			186			213			91

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	31	AN-M	AR	AI	R-JI	UH	- 5	Je-51	P	01	CT-DI	EC
	day	nit	d&n	day	nit	d&n	day	nıt	dån	dav	nit	dan	day	nıt	ď۶۰
Percent occurrence	20	9	14	32	17	25	16	0	8	13	9	11	18	8	13
AVG top ht Kft			5.2	l		5.2			4.9	!		5.9	İ		4.8
AVG thickness Kfi			. 48			.43			. 34			.36	1		. 45
AVG trap freq GHz			.62			.68			.90	_		.53			.47
AVG lyn gnd -N/Kft	l		58	i		56			54			64	ļ		ಶರ
AVG lur base Ift	ļ		4.9	1		4.8			4.6			5.7	ł		4.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	Y	EARL	T	31	AN-III	AR	AF	P-J(314	Jŧ	JL-51	2	CC	T-DE	i.
	day	nit	d&n	day	nit	dan	day	nit	d&n	day	nit	den	day	nit	<u>दः</u> १
0 to 10 Feet	2	_2	2	3	i	2	1	2	2	3	2	2	2	1	
10 to 20 Feet	3	6	4	2	7	4	3	6	4	4	7	હ	2	٤	3
20 to 30 Feet	5	_ 18	8	4	-	_ 5	6	7	- 5	10	14	12	6	13	10
30 to 40 Feet	10	17	13	6	12	9	10	11	11	14	24	19	9	20	15
40 to 50 Feet	15	24	26	12	23	17	17	24	21	18	24	21	12	26	: 9
50 10 60 Feet	<u> 14</u>	17	15	13	18	15	16	23	19	15	12	14	11	15	; :
68 to 78 Feet	9	7	- 8	9	8	8	10	- 9	9	10	7	8	9.	5	_:
70 .c 80 Feet	6	4	5	6	3	4	7	7	7	5	3	4	7	3	9
RP to 90 Feet	3	2	2	6	3	4	3	1	2	_ 3	9	_ 2	_ 2	2	2
90 to 100 Feet	2	1	1	2	- 6	<u></u>	2	1	2	2	9	1	1	1	1
above 100 Feet	29	11	20	38	18	28	23	i 1	17	16	4	10	39	19	24
Hean height Feet	86	58	72	102	69	8€	78	61	70	66	45	55	100	55	

GENERAL METEOPOLOGY SUMMAPY:

PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
[day nit dan	day nit dan	day nie den	day nit dan	day nit din
% occur EL&SB dcts	3	5	1	2	3
% occur 2+ EL dcts	2	3	1	1	. د
AVG station N	380	376	382	379	382
AVG station -N/Kft	17	16	16	17	18
AVG sfc wind Kts	4.2 8.5 8.9	8.2 7.5 7.8	10 8.3 8.9	11 10 11	8.1 7.8 7.9

14 43 H 17 30 W

(*) INDICATES INSUFFICIENT DATA

Radiosonde source : 61641 14 43 N 17 30 H

Specified location:

Radiosonde station height: 89 Feet

15 60 N 15 00 W Surface obs source: MS38

PERCENT OCCUPRENCE OF ENHANCED SUPERICE-TO-SUPERICE RADRE/FSM COM PRINCES:

PERCENT OCCORRENCE	71 L	******	CLD.	30r.		, 0 3	3 K T - 11		12111	- 7-1			36.78		
FREQUENCY	Y	EARL	Y	J	ลิห-หล	AF.	. ค	PR-JI	אט	JI	JL-SI	EP	00	CT-DE	EC
	day	nit	den	day	nıt	d&n	day	nıt	dŧn	day	nı.	dan	day	nit	dan
100 HHz	17	22	20	22	29	25	22	25	24	4	4	4	21	30	26
1 GH≥	66	65	65	77	83	80	68	68	68	40	24	32	79	83	∂1
3 GHz	72	69	70	_ 82	88	35	72	72	72	48	30	39	84	88	86
6 GHz	85	79	82	89	91	98	83	78	81	73	54	63	94	93	53
10 GHz	94	92	93	95	96	95	94	98	92	91	85	88	98	97	97
20 GHz	97	96	97	97	98	97	96	95	96	96	34	95	99	99	99

SURFACE BASED DUCT SUMMARY:

PARAMETER	YE	ARL'	ľ	31	1 <u>1 - 4 F</u>	R.	AF	R-J1	ИU	J	JE-SI	FP	00	CT-DE	C
	day	nit	d&n	day	nit	dtn	day	nit	d&n	day	กาเ	d&r.	day	nit	đt n
Percent occurrence	51	65	58	65	35	75	59	68	64	23	24	24	58	83	71
AVG thickness Kft	1		.66	l .		.58	Ì		.75			. 60	ļ .		. 68
AVG trap freq GHz	1		.23	1		.17	Ì		. 15	i		.44	l		. 15
AVG for grd -N/Kft	l		106			104			165			111	l		105

FLEVATED DUCT SUMMARY:

PARAMETER	Y	EARL	7	JI	AH-M	AR .	AF	R-JI	JH	J:	JL-55	ĒΡ	00	T-DE	EC
	day	nit	d&n	day	nıt	d&n	day	nit	dan	day	nit	dan	day	nıt	dan
Percent occurrence	27	21	24	21	14	18	39	24	32	26	28	27	23	18	21
AVG top ht Kft	i		1.8			1.1			1.7			2.7			1
AVG thickness Kft			.77	L	_	. 60	i _		.84	L _	_	.87			.76
AVG trap freq GHz			.18			.19			.16			.12			.26
AVG lyr grd -N/Kft	İ		61	Ì		66			59			ϵ 3	ĺ		60
AVG lyr base Kft			1.2	L		.71	}		1.1			2.0			1.1

E-APORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PEPCĒNT	OCC	UPRENCE	Y	EARL'	ľ	Ji	AN-M	ar :	- AI	-R-J	JN	J	اS-ياز	EP	- 00	T-DE	C
			da	nit	dån	dav	nit	den	day	nit	den	dav	กาเ	<u>d&n</u>	day	nit	d&n
0 10	10	Feet	4	5	4	5	6	- 6	- 6	7	6	_ 3	3	3	2	2	2
10 to	20	Feet	3	7	5	3	8	6	4	8	6	3	6	4	1	6	3
20 10	38	Feet	5	12	á	5	14	10	7	16	11	6	11	8	3	8	•
38 to	40	Feet	- 8	16	12	8	16	12	10	20	15	9	17	13	4	10	_ 7
40 to	50	Feet	11	17	14	ءِ ا	14	12	14	17	16	14	23	19	6	15	11
50 10	60	Feet	11	13	12	8	9	9	13	12	12	14	17	16	8	13	10
60 to	70	Feet	8	7	8	7	6	7	8	5	7	10	8	9	8	10	
70 to	80	Feet	6	4	5	6	4	5	6	3	4	6	4	5	7	7	- 7
01 03	υū	Feet	4	3	3	4	2	3	3	1	2	4	2	3	5	5	:
90 to	100	Fee:	3	2	2	3	- 2	3	2	1	2	3	1	Ž	4	3	_
above	100	Fegt	37	14	25	40	18	29	27	9	13	28	ė	19	52	19	36
Mean he	rgh	ı Feet	97	68	79	101	64	82	81	49	65	87	54	71	119	73	96

GENERAL METEOPOLOGY SUMMARY:

PARAMETER	YEARLY	JAN-MAR	APP-JUN	JUL-SEP	OCT-DEC
	dau nit dan	day nit dan	dau nit den	day nit dan	day not den
% occur EL&SB dcts	5	5	5	3	5
% occur 2+ EL dcts] 3	1	4	4	2
AVG station H	365	348	361	382	3€?
AVG station -N/Kft	25	27	28	19	28
AUG sec uind Kis	12 11 11	13 12 13	13 12 12	18 9.4 10	12 10 11

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

(+) INDICATES INSUFFICIENT DATA Specified location: 16 43 N 22 57 W

Radiosonde source : 8594 16 43 N 22 57 W

Radiosonde station height: 177 Feet

15 00 N 25 00 H PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESH CCM RANCES:

FREQUENCY	Y	EARL'	Ý.	Ji	พ-พค	AR	AI	PR-JI	JH	J	JL-SI	ΕP	0.0	CT-DE	EC
	day	nit	dan	day	nıt	dŁn	day	nıt	din	day	f1 7 2	dt "	day	nit	dan
100 MHz	3	3	3	2	6	4	4	3	3	3	2	2	5	0	2
1 GHz	37	15	26	30	2€	28	38	14	26	39	12	25	42	7	24
3 GHz	49	_21	35	44	36	40	48	19	33	47	16	32	56	13	35
6 GHz	80	57	68	80	68	74	80	54	67	74	46	60	8€	69	7.3
10 GHz	94	89	91	93	93	93	93	89	91	92	83	87	96	90	93
26 GHz	97	96	96	9€	97	97	96	96	96	96	94	95	38	96	5.7

SUPERCE BASED BUCT SUMMARY.

Surface obs source: MS39

PARAMETER	Ϋ́Ι	EARL'	Υ -	J	fili-Mi	R.	A	R-JI	JH	31	UL-SI	P	0	CT-DI	EC
	day	nit	d&n	day	nit	d&r.	day	nıt	dan	day	การ	den	da	nıt	d= m
Percent occurrence	18	14	16	11	33	22	20	14	17	18	9	14	23	8	12
AVG thickness Kft			. 62	1		.63	j		. 65	ŀ		.45	•		.75
AVG trap freq GHz			. 43	i		.44	j		. 43	İ		.49	•		. 39
AVG lyr grd -N/Kft			98			166	l		85			36	i		24

PARAMETER	Y	ARL'	Y	J	หม-พเ	1R	กร	-R-JI	314	Jl	JL-SE	P	- 00	CT-DE	EC -
	day	nit	d&n	day	rit	d&n	day	nit	dån	day	nit	dån	day	nit	dar.
Percent occurrence	43	22	32	47	9	24	47	22	35	36	65	51	41	ē	21
AVG top ht Kft			2.8	i		2.7	ĺ		2.6	1		3.3			2.4
AVG thickness Kft			. 92			.73	ļ		1.0	l		1.1	ļ		. 90
AVG trap freq GHz			. 11			.16			.89			. 89			. 11
AVG lyr grd -H/Kft	i		67	l		61	l		73	l		69			54
AVG lyr base Kft			2.2	[2.1	Ī		2.1	ſ		2.7			1.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PEPCENT OCCURPEN	,E Y	EARL	ď	J	คม-หเ	RR	AF	R-JI	JN	31	JL-5!	P	00	T-DE	C _
	dav	nit	dan	day	1111	dtn	day	nit	dan	dav	กาเ	din	1129	nit	d+ n
0 to 10 Feet	3	2	2	3	2	2	3	2	2	3	2	2	2	1	
10 to 20 Feet	2	3	3	2	3	2	2	3	2	2	5	4	1	3	2
20 to 30 Feet	4	8	_6	_3	7	5	3	8	6	5	11	_8	ં ક	- 6	4
30 to 49 Feet	6	15	11	6	15	10	5	18	11	5	18	13	5	11	ક્
40 to 50 Feet	10	22	16	} ş	21	15	12	24	18	13	22	17	8	19	14
50 to 60 Feet	13	21	17	13	19	16	14	22	18	13	19	16	12	22	17
60 to 70 Feet	13	13	13	14	15	15	13	11	12	11		: 6	13	15	14
70 to 80 Feet	10	7	9	12	18	11	10	6	8	7	5	6	12	18	11
80 10 90 Feet		3	- 5	8	3	6	_ 6	2	4	4	2	3	9	4	6
90 to 100 Feet	4	2	3	6	2	4	3	1	2	3	1	2	5	3	4
above 100 Feet	28	5	17	25	4	14	28	5	16	30	6	18	38	7	19
Hean height Feet	88	55	72	84	55	79	87	52	70	90	52	71	92	59	-

CENEDAL METEOPOLOGY SUMMARY.

PARAMETER	YEARL	7	JA	H-MF	R.	AP	R-JU	JH	Jŧ	L-Si	EP	0(T-DE	C
_	day nii	den	day	ntt	den	day	nıı	den	day	pit	320	dau	กเม	6 " ~
% occur EL&SR dcts		7			4			18			- 8			_ 7
% occur 2+ EL dc+s		3	ļ		2			3			4	i		2
AVG station N		348	[338			344			360	Į .		340
AVG station -N/Kft		22	İ		21			24			19	l		22
AUG sec wind Yes	13 12	13	15	14	15	14	13	1-4	11	10	16	13	12	12

Specified location:

15 00 H 35 99 H 16 43 H 22 57 H

(*) INDICATES INSUFFICIENT DATA

TANGERS BANGAR BANGAR

ACCRECATED LIGHTER CONTROL BUILDING TO A CONTROL BUILDING CONTROL LIGHTER CONTROL CONT

3

188 TX 881

Radiosonde source : 8594 Surface ob: source: MS40

Radiosonde station height:

15 00 N 35 00 H

177 Feet

PERCENT : CHREENCE OF ENHANCED SUPERICE-TO-SUPERICE PARAP FSM COM PANSES:

FREQUENCY		EARL			AII-M			१२-JI			UL-SE			CT-DI	=, -
PREQUENCT	,			,					-				-		
	da,	nit	d£r.	day	การ	_d&n	day	nit	din	Cay	r:1 *	dan)	dav	nit	den
100 MHz	3	3	3	2	6	-4	4	3	3	3	2	2	5	0	2
: GHz	42	14	28	35	26	31	44	14	29	44	12	28	44	5	25
3 GH2	56	23	46	52	18	46	59	21	46	55	18	37	59	14	٠
6 GHz	86	69	77	86	79	82	87	69	78	82	5	70	88	69	7
10 GHz	95	93	94	96	96	96	96	94	95	94	98	92	96	÷3	95
29 GHz	97	97	97	l 98	98	98	98	98	98	96	96	96	98	97	9.

SUDEACE PAGED SUCT SUMMARY.

	301111														
PARAMETER	Y	EARL	Υ	J 31	คท-พ	AR.) A:	PP-J	אני] 3.	JL - 51	ĘΡ) 00	CT-DI	E.C
	ia∵	211	487	day	nı t	dan.	day	ខារ	dt r	gay	211	dt r	da	nit	dan
Percent occurrence	18	14	16	:1	33	22	20	14	1?	18	9	14	23	- 3	12
AVG thickness Kft	i		. 62	i		. €3	ĺ		.65	ł		.46	ĺ		. 75
AVG trap rreq GHz	i		.43			. 44			.43	l		.48	l l		. 39
AVG lur and -H kft	l		98	1		186	I		85	l		86	ĺ		84

ELEVATED DUCT SUMMARY:

PARAMETER	YEARL	.y ===	<u> </u>	fizi-116	iR	AI	R-JI	บท	7	L-Si	EP	- J.	CT-DI	ĒŪ
	day nit	_d&n	day	การ	den	day	n.t	dan	da:	F 1 1	dt n	da.,	n t	dŧn
Percent occurrence	43 22	32	47	0	24	47	22	35	3€	65	51	41	e	- 11
AVG top ht kft		2.8	l		2.7			2.6			3.3			2.4
AVG thickness ift		.92	j .		. 73	1		1.8			1.1	1		.93
AVG trap freq GHz		.11			.16			.69			. 69			.11
AVG lyn gnd -H/Kft		67	i		61			73	ŀ		69			64
AMG for base fit		2.2			2.1			2.1	ļ		2.7	i		1.7

E-APOPATION BUCT HISTOSPAN IN PEPCENT OCCUPPENCE:

PEFCENT OC	UPPENCE	(EARL	1	30	411-H	18	AF	<u>-11</u>	UN	J.	JL-5!	EF	50	ות-דנ	EC
		da	nı-	cen	dae	1-11	dt.	dav	nit	dan	dav	nit	den	da	211	din
0 to 10	Feet	2	1	2	2	1	— <u>1</u>	2		1	3	1	2	2	1	1
10 to 20	Feet	1	2	2	1	2	2	1	1	1	2	3	3	1	2	2
20 to 30	Feet	3	4	_ 3	_2	3	2	<u> 2</u>	5	. 3	3	5	5_	2	- 4	_ 3:
30 10 40	Feet	1	16	7	4	8	- 6	4	9		9.	13	ş	4	8	0
40 to 50	Feet	7	19	13	8	17	12	7	19	13	ક	23	15	5	16	11
50 10 30	Feet	11	22	17	11	٤1	16	1_11	25	10	11	22	15	111	23	17
60 10 70	Feet	12	18	15	13	20	17	12	19	13	10	14	12	12	20	15
70 to 80	Feet	12	11	11	13	13	13	11	11	11	6.	8	9	13	13	13
98 10 98	Feet	8	5	_ 7	10	7	_9	و _	3	6	6	3	5] 🏺	5	7
30 to 100	Feet	- 5	2	4	7	4		6	2	-	7	2	3	7		— 5°
above 189) Feet	33	5	19	29	4	17	35	4	20	36	6	21	33	5	: 4
Mean heigh	T Feet	35	59	-8	92	6:	76	فة	59	79	99	56	78	95	68	78

CEMERAL METEOPOLOGY SUMMARY:

PARAMETER		APLY			?};− 71			F- 3			LL- S!			C:-D!	EC
	13" r	11:	dt n	uau	nit	dEr.	dav	nı:	d2r	day	n''	dž ti	da.	กาเ	din
. occur ELSSP Jc:s			7			4			16			8	<u> </u>		~~~
% occur 2+ EL dets			3	İ		2			3	1		4	:		2
./G station H			348	ĺ		338			344	i		360	ĺ		350
IVG station -N Fft			22			21	i		24			19			3.5
ArGisfa sind his	15	14	14	1-	15	1€	15	15	15	13	: 3	13	14	14	1 .

HISTORICAL PROPRIATION CONDITIONS SUMMARY IPEPS REV 2.1

Specified tocation: 15 00 N 45 00 H (+) INDICATES INSUFFICIENT DATE Radiosonde source : 81403 5 12 N 52 42 H

Radiosonde station height: 26 Feet Surface obs source: HS11 15 80 N 45 88 N

DESCRIPT OCCUPABILE OF ENHANCED SUPERISTO-SUPERIS DATAS BON FOR DANCES.

FREQUENCY	Y	EARL'	Ÿ	J	AH-H	AR.	A	PR-J	UH	5	L-SI	ĒΡ	Ĝ	T-Da	: C
·· ·	day	กาะ	dên	day	rit	den			dån	dav	nit	dån	dau	การ	d-n
100 NHz	3	2	2	8	3		+	*	+	1	+	-	6	0	3
1 GHz	42	12	27	36	18	27	+	*	*	*	+	+	49	6	27
3 GHz	57	22	40	51	30	41	+	*	+	+	•	*	63	14	9د
6 GHz	86	78	78	84	76	89	*	-	•	*	+	+	87	65	-5-6
10 GHz	95	93	94	94	95	94	*	+	*		•	•	95	92	÷3
28 Gaz	97	97	97	96	98	97	l .	+		١.			97	97	97

SUPFACE BASED DUCT S	SUMMERY													
PARAMETER	YEAR	ĽŸ——	J	H-HA	AR T	A	PP-JI	หบ	J	UL-SI	P	06	T-Di	EC
	day ni	t din	day	การ	den	day	nit	din	dav	nı.	din	Can	nit	den
Percent occurrence	14 1	3 13	3	22	13	0	17	9	*	+	٠.	38	8	:9
AVG thickness Kft		. 17	i		.18			0			*			نـد .
AVG tr p freq GHz		.42	l		.70			e	į		-			.55
AUC Ing and -N YES	L	131	l		181		_	•			_ •			92

PARAMETER	YI	EAPL	r	J	811-HA	46	Ai	P-J	UH	J	118	ΕP	00	T-DE	C
	dar	n11	ರಕಿಗ	day	nit	<u>ಚಕ್ಕೆ ಬ</u>	day	712	ctr	dave	n11	C\$P.	day	nit	dt i
Percent occurrence	- 6	12	9	19	- 4	7	0	13	7	4	+	•	ਝ	20	14
AVG top ht Kft	ĺ		6.9			7.1			7.2			•	ĺ		6.3
AVG thickness fft			.49			.76			. 36	ĺ		*			. 34
AVG trap freq Griz			.85			.11			.83			-			1.6
AVG lyr grd -N/Kft			98			88	l		51			*			1.0
AVG for base Aft	1		6.6	i		5.7	Ī		6.9			+			€.2

EMAPORATION DUCT HIS	тося	AM	IN PE	PCE	AT DO	CUP	PENCE	:							
PEPCENT OCCUPRENCE	νE	APL'	¥	Ji	in-m	R.	AF	P-J1	JH	J	UL-SE	ΕP	0	T-DE	C
	Ca	nit	din	day	nit	dar.	da	71 t	d\$n	da	n·t	din	dav	211	dur
C to 10 Feet	3	1	2	2	I	2	3	1	2	2	1	2	3	1	- 2
10 to 20 F∈≥t	í	2	2	1	2	1	2	2	2	1	2	2	1	2	2
20 10 30 Feet	3	4	_ 4	2	4	3	2	_ 4	3	3	4	4	3	5	4
30 to 40 Feet	- 4	9	Ø,	4	٦ 8	5	3	Ģ	6	7	8	6	4	10	
40 to 50 Feet	7	17	12	€	15	11	5	16	16	7	19	13	8	17	13
50 to 60 Feat	ď	22	16	19	22	16	7	22	15	ġ	_ 23	1€	11	22	15
60 to 70 Fe€1	12	18	15	12	15	15	11	13	15	11	17	14	12	17	15
70 to 80 Feet	11	13	12	12	15	13	11	13	12	16	13	11	12	11	::
80 10 90 Feet	8	6	7	a	7	ತ	10	- 6	8	_ =	_ 5	6		6	
90 to 100 Feet	6	3	4	6	3	5	7	3	5	5	- 4	4	6	-3	4
above 100 Feet	36	6	21	35	5	20	39	6	22	46	•	23	33	6	٠,٠
Hean Feight Feet	49	εı	80	97	-62	٥٦	193	62	82	163	6:	90	د۽	<u> </u>	

GENERAL METEOPOLOGY SUMMARY:

PARAMETEP	YE	APL	7	Ji	:11-H	PF .	AF	P-71	ÜN	31.	L-51	ΕP	00	T-3	Ec -
	da	n11	din	dav	rit	din	dav	nit	dtr	da ·	ni:	dtn	da	nıı	ರಕ್ಕ
% occur EL&SB dcts			1			Ü			0			3			2
: occur 2+ EL dcts	!		1			Э			0			3			ì
AVG station N			383	ŀ		388			385			-			384
AVG station -N. Ift			18			17			17			•			21
A I sec und 1:5	15	14	14	16	15	15	15	14	15	14	14	14	14	13	13

Epecified location: 13 04 N 59 28 N (+) INDICATES INJUFFICIENT DATA Radiosonde source: 75954 13 04 N 59 28 N Radiosonde station height: 154 Feet Surface obs source: MS42 15 00 N 55 00 N

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SUPFACE RADAR ESM COM PANIES

PERCENT OCCUPRENCE O	JE EMBUM	שיל עם.	1KLUFC-	10-24	JP P MI	. C. Fr	אחעי	5 311	L C	F 717	, E		
FREQUENCY	(EARL)	۲	JAN-HI	1P	Āf	PR-JU	!!!	31	JL-S	2	04	CT-DE	EC
	day nit	dan	day nit	dŧn	day	nit	dan	dav	nıt	3-0	d3.	nt	4:2
100 HHz	3 1	2	3 0	2	2	1	1	4	- 2	3	5	2	3
1 GHz	43 12	27	41 8	25	39	10	25	46	14	30	44	15	32
3 GHz	59 24	41	57 22	40	5€	21	39	63	2€	44	59	26	-3
6 GHz	88 74	81	87 74	31	87	73	89	89	75	82	37	72	εů
19 GHz	96 94	95	96 95	95	96	94	95	97	95	96	37	94	75
20 GHz	98 98	98	98 98	98	97	98	98	59	98	99	98	97	ક્ર

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SURFACE LASED DUCT SUMMERY:

PARAMETEP	Y	EARL	Y	J	814-H	46	Al	PR-31	JR	Ji	uL-Si	۳	G	CT-DI	E€
	day	nıı	din	day	nıt	ರಹಿಣ	day	n·t	din	da	n·t	dEn	ca	F+ 1 T	din
Percent occurrence	23	9	16	18	1	10	:5	4	10	26	14	20	34	15	25
AVG thickness Kft			.29			.29			. 33			.28	İ		. 25
AVG trap freq GHz	ł		. ??			.56			1.0	1		.72	1		. 24
AVG for and -H/Yft			91	l		98	ļ		107			78	ĺ		95

ELEVATED DUCT SURHAPY:

PAPAMETEP	71	E4PL	Y	31	AN-M	AR	A!	PR-JI	11:	J,	L-S	Р	90	T-DE	EC
	day	n11	d&n	350	211	dan	day	nit	J&r	da∖	1.3 2	der.	da	nii	dtn
Fercent occurrence	39	- 5?	48	44	73	59	46	65	56	35	44	40	29	45	3?
AVG top ht kit	i		6.6			6.8	l		7.0	ĺ		6.4			6.2
AVG thickness Kft	L		. 44			. 45			. 45			.41			3.4
MYG trap freq GHz			.38			.32	i —		.29			. 44	Ī .		. 45
AVG lyn gnd -H/lft			62	1		64	į		63	İ		57	ł		63
AVG for base Kft			6.3	İ		€.5	ł		6.7	ł		6.1	1		6.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPPENCE:

FEPCENT OCCUPPENCE	YE	APL	Ÿ	J.	an-Hi	18	AF	R-JU	jh.	J:	\$	F	e:	7-DE	:C
	day	nit	dŧn	day	***	den	dau	f 1 t	din	day	611	45.	da	nit	di n
0 to 10 Feet	2	1	1	<u> </u>	1	1	2	1	-:	1		1	2	<u> </u>	1
10 to 20 Feet	1	2	1	1	2	1	1	2	1	1	2	1	1	2	2
20 to 30 Feet	2	4	3	2	_ 3	3	_ 2_	4	3	2	4	3	2	4	3
30 to 40 Feet	4	7	5	1	7	5	3		5	3	7	- 5	1	8	-;
40 to 50 Feet	7	15	11	7	14	11	É	15	11	7	:5	11	ءِ	17	13
50 to 60 Feet	11	21	15	10	28	15	10	21	16	11	33	1 €	13	33	19
60 to 70 Feet	12	19	15	12	19	15	11	19	15	1:	19	15	12	18	—ı 5
70 to 80 Feet	12	13	12	12	14	13	12	13	13	11	14	12	11	12	12
80 to 40 Feet	۔ ا	7	8	16	q	Q	10	7	8	٦	7	8	8	€	7
90 to 100 Feet	7	3	5	T =	5	6	-	3	5	7	3	5	5	3	4
above 100 Feet	34	8	21	33	8	21	34	8	21	3~	-	22	32	8	20
tean height Feet	97	64	80	95	66	3	97	65	91	100	€4	32	93	53	-8

GENERAL METEOPOLOGY SUMMAPY:

PAPAMETEP	/E	APL'	ř	Js	าห-หค	AP	AF	R-JU	JN	3.	'L-\$E	F	90	. T - Di	EC
	day	7. 2 2	dt.n	34.	011	dtr	da	n11	37 0	14	** 1 2	780	Jan	***	d: n
. occur EL&SS dats			5			3			4			ó,			8
. occur 2+ EL dets	İ		14	l		12			19			13			12
AVG station H	ł		372	l		365	İ		371			378			375
AVG station -N. Fit			18	i		16	i		17			19			1>
AUG sic wind Its	14	13	14	15	14	15	15	14	14	1.4	1 3	1-	13	12	: 3

SISTOFICAL FROPAGATION CONDITIONS SUMMAF-IPEPS REV 2.1

(+) INDICATES INSUFFICIENT DATA

Specified location: 10 42 H 61 36 H Radiosonde source : 78967 10 42 H 61 36 H

Radiosonde station height: 43 Feet

Surface obs source: MS43 15 00 N 65 00 H

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESH CON RANGES:

FREQ	UENCY	Y	EARL	Y	J	H-HH	AR	A	PR-J	Uli	J,	JL-SI	EP	-00	CT-D	ΕĹ
		day	กาะ	dan	day	nit	den	day	nit	ರಹಿಗ	day	การ	CEn	dey	rit	d:r
100	HHZ	- 6	1	3	4	0	2	5	1	3	9	0	4	7	ī	
1	GHz	47	12	29	41	18	26	44	12	28	55	1:	33	46	12	
3	GH≥	61	23	42	\$6	22	30	59	22	46	68	22	45	61	24	~
6	GHZ	87	72	30	86	73	79	85	63	7.	96	7.3	13	88	73	- 8
10	GHz	96	93	94	96	93	94	j 95	92	93	97	93	95	97	91	3
29	GHz	98	97	97	97	97	97	97	9€	96	98	97	97	98	97	Ģ.

SUPFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY	JAH-HAR	APR-JUN	JUL-SEP	OCT-DEL
	dav nit dan	day niz dan	day nit dan	day nit dan	day not dir
Percent occurrence	30 3 16	24 1 13	23 4 14	39 1 20	33 5 1.
AVG ti ickness Kft	.43	.37	.45	.49	.49
AVG trap freq GHz	.42	.61	.36	.32	.36
AVG lyr grd -N Yft	75	87	69	76	?હ

FLEVATED DUCT SUMMARY:

PARAKETEP	11	EARL'	Y	J	AH-11	AR.	- AI	PP-J	บน	7	JL-51	EP	00	T-D	ĒĽ
	da∨	nıt	_d&n	day	nii	dan	dav	nit	dtn	day	nıt	der	day	nit	đ
Pertent occurrence	25	33	29	31	42	37	23	36	30	23	32	28	24	21	
AVG top ht Kft	1		7.0	İ		6.5	•		6.9			7.5	!		6.3
AUS thickness Ift			.40	L.		41	l		.47	l		.31	i		.42
AVS trap freq GHz	i		.52			.49			. 33			.81			. 45
AVG lyn grd -N/kft	1		57	ĺ		54	í		63			55	(57
AVG for base kft			6.7	l		6.5	ļ		6.6			7.3	ł		€.S

EMAPOPATION DUCT HISTOCRAM IN PERCENT OCCURRENCE:

PERCENT CCCUPPE	NCE	YE	ARL	!	1	AH-HI	AR.	A.F	P-J	UN	J:	UL-5	Ρ	36	7-28	Ĺ
		la:	nıı	din	dau	nit	d&n	day	<u>n11</u>	den	da ₃	nit	den	da/	n:t	₫ŧ n
8 to 19 Fee		2	-1	- 2	1	1	1	2	- 2	2	2	2	2	2	1	
10 to 20 Fee	· [i	2	2	1	2	2	1	2	2	1	2	1	1	2	- 2
20 to 30 Fee		3	4	3	_ 2	_ 4	. 3	_ 3	5	4	3	4	3	3	4	3
30 to 40 Fee	1	4	7	-6	4	7	6	+	8	ĕ	4	- 6	5	4	7	_ 3
40 to 50 Fee	1	8	:4	11	8	14	11	8	:5	12	7	14	11	8	15	:2
50 to 60 Fee	•	11	20	16	12	_19	15	11	20	:5	11	3 4	15	13	21	17
50 to 70 Fee	1	13	18	15	13	18	16	12	17	15	12	18	1-	1+	18	16
70 to 80 Fee	•	11	13	12	12	14	13	11	12	11	11	14	12	12	13	: 3
80 to 90 Fee]	9	- 7	. 8	_ 8	_ 7	ક	9	ô	ક	ي	8	8	و	7	9
90 to 188 Fee	₹	ů	4	5	6	4	5	6	3	4	6	- 3	5		4	5
above 100 Fee	٠.	32	10	21	31	10	20	33	16	21	35	11	23	29	Ģ	19
Hean height Fe	€1	Ģ4	66	80	93	67	80	95	65	86	36	68	83	92	66	و

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEAPLY	JAN-MAR	APP-JUN	JUL-SEP	OL :-DE-
	day nit den	au nie den	day nit dan	day nit dan	day nit dir
% occur EL&SB dcts	4	5	2	5	5
% occur 2+ EL dcts	5	7	3	5	4
AVG station N	372	363	369	380	3.7
AVG station -H/Kft	18	17	16	19	15
AVG sft uind fits	14 13 13	14 14 14	14 17 14	14 13 13	13 12 :3

(+) INDICATES INSUFFICIENT DATA

٢ ٢ CANAL TANGENT TO SECURE TO

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IREPS REV 2.1

Specified location: 17 07 H 61 46 H

Radiosonde source: 78861 17 07 H 61 46 H Radiosonde station height: 33 Feet

Surface obs source: HS43 15 00 N 65 00 H

PEPCENT OCCURPENCE OF ENHANCED SURFACE-TO-SURFACE RADAP ESM COM RANGES:

FREQUENCY	Y	EARL'	Y	J	คพ-ท	R.	, AI	PR-J	JH	7,	JL-31	EF	Q.	.T-Di	Ec -
	Jay	nit	d&n	day	nit	dŁn	day	nit	d&n	day	nıt	dan	day	ខាដ	den
100 MHz	0	0	9	0	0	0	8	0	9	0	0	0	θ	8	0
1 GH=	33	10	21	31	10	28	33	10	22	36	11	23	3e	9	20
3 GH=	48	21	34	46	21	33	48	19	34	51	22	36	45	21	33
6 GH⊋	83	71	77	82	73	77	81	68	75	84	72	78	83	72	1
18 GHz	94	93	94	94	93	94	93	91	92	95	93	94	95	94	95
20 GH±	97	97	97	97	97	97	96	96	96	97	97	97	98	97	98

SUPFACE BASED DUCT SU 4PY:

PARAHETER	Υŧ	EARL'	Y	J	AH-H	7.P	H.	P-J	ŲN	31	ひとーちに	EP	0	LT-D	EC
	dav	nit	den	day	nit	din	day	nit	dsn	dav	017	dir	day	n1:	din
Percent occurrence	2	0	1	1	- 8	1	1	8	1	2	Ú	1	3	9	2
AYG thickness Kft			.33	{		.28	1		. 45	Ī		.2€	[. 34
RYG trap freq SHz			.78	1		1.0	i		.81	ı		.66	ļ		. 55
AVC lyr grd -N-Kft			200	Ĺ		353	Ĺ		288	L		82	<u> </u>		163

ELEVATED DUCT SUMMARY:

PARAHETER	Y	PRL	<i>(</i>	J	AH-H	RR	Ai	R-J	JN.	31	15-51	EP	00	CT-DE	EC
	day	n::	dtn	367	P12	din	day	nit	dan	day	nit	din	dau	nit	dan
Percent occurrence	44	8	22	49	9	25	41	9	21	42	- 0	21	42	6	21
AYĞ top ht Kft			6.5	1		6.9	İ		6.4	l		5.0			6.8
AVG thickness Ift	<u>i</u>		.40	L		.41			. 38	L		. 40			.42
AVG trap freq GHz			.43			. 44			. 48	i		.42			.37
AVG lyr grd -H/Kft			60	[57			58			62			€1
AVG lyr base rft	L		6.2	L		6.6			6.1	1		5.7	_	_	6.5

EVAPORATION LUCT HISTOGRAM IN PERCENT OCCURRENCE:

PEFCENT OCCURPENC	Y	EAPL	Ÿ	J	Ah-H	RR	A	0=-J	มห	5,	v: - S	EP	0	T-D:	ĒC T
	ga.	กเร	din	day	4:3	ರಕೊ	day	212	den	day	211	din	day	015	din
0 to 10 Feet	2	i	2	1	1	1	2	2	-2	2	-2	ž	Ž	1	1
10 to 20 Feet	1	2	2	1	2	2	1	2	2	1	2	1	1	2	2
28 to 30 Feet	1 3		3	2	4	3	3	_ 5	_ 4	3	4	3	3	_ 4	3
30 to 49 Feet	4		6	1 4	7	5	1 4	- 8	€	4	6	5	1	7	ō
40 to 50 feet	3	14	11	ŝ	14	11	8	15	17		14	1	ક	:5	:2
50 to 60 Feet	1:1	35	16	12	19	_15	11	28	15	11	19	15	13	_21	1.7
60 to 70 Feet	1 13	18	15	13	18	16	12	17	15	12	15	15	14	18	16
70 to 50 Fest	1:	13	12	12	14	13	11	12	11	11	14	12	12	13	:3
30 to 90 Feet	. 9	7	8	8		8	9	6	8	٠	8	8	9	7	8
98 to 180 Feet	1 6	- 4	5	- 6	+	5	6	3	4	10	3	5	6	4	5
above 100 Feet	32	10	21	31	18	59	33	10	21	35	11	23	29	ي	:5
Rean height Feet	34	€6	88	93	5-	86	95	65	88	98	- 59	33	35	-66	79

GENERAL METEOPOLOGY CURMAPY:

PAPAMETEP	YS	APL'	Y	Ji	1H-H	AP.	RF	5-2	111	3.	L - :	P	Θ.	7-06	<u> </u>
	day	nit	den	day	012	વદઃ	day	nst	dz.	3a	* * *	at.	€ 4	ntt	C: "
" occur EL&S& dcts			1			1			1			1			
% occur 2+ EL dcts			11			13			10			18			13
HVG station II			373			3€3			372			391			376
RVS station -H/Fft			18	i		16			18			19	i		18
A.G sic wind 115	14	13	13	14	14	1.4	_ 14	13	14	14	13	13	13	12	: 3

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMBAPY

Specified location: 12 12 H 68 58 H (+) INDICATES INSUFFICIENT DATA

Radiosonde source: 78988 12 12 N 68 58 W Radiosonde station height: 30 Feet

Radiosonde station height: 30 Feet Surface obs source: MS43 15 00 H 65 00 H

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SUPFACE RADAR ESM-COM PANGES:

FREQUENCY	Y	EARL	Y	J:	คห-หเ	BR	, AI	PR-J	JH	J	JL-SI	EP	C	CT-D	<u> </u>
	day	nit	dir.	day	ntt	dan	day	nıt	dta	dau	nit	dsn	day	nil	den
186 MHz	1	1	1	1	1	ī	8	8	0	6	9	9	1	1	1
1 GHz	34	12	23	33	14	24	34	10	22	36	12	24	31	12	21
3 GHz	48	23	36	48	26	37	49	20	34	51	24	37	46	24	3
6 GHz	83	72	78	83	74	79	81	68	75	84	73	79	83	73	78
18 GHz	95	93	94	95	94	94	93	91	92	95	93	94	95	94	35
28 GH+	1 97	97	97	97	47	97	96	96	96	97	97	97	40	67	Ġ.

SUPERCE RASED DUCT SUMMARY.

PRRANCTER	Y	RRL	Y	J	H-H	RR	- AI	<u>- R-J</u> I	UH	J,	JL-SI	EΡ	0.0	7-1	EC
	day	nit	din	day	nit	den	day	nit	ರಕ್ಕ	dau	nit	dtn	day	nit	da .
Percent occurrence	4	4	4	6	?	7	2	1	2	3	3	3	5	5	5
HYG thickness Kft			. 36	l		. 39	i .		. 32	i		. 48)		. 31
AVG trap freq GHz			.68	ì		. 58	ì		. 66	l		.75			.73
AVG lyn and -N/Kft	l		125	l		182	l		163	i		114	l		181

ELEVATED DUCT SUNNARY:

PARAMETER	Y	EARL	Y	J	AH-11	AR	A:	PR-J1	UN	3	JL - 59	F	Ü	CT-D	ĒC
	day	กาง	din	day	nıt	dan	day	n11	den	da	***	den	da	017	ರಕ್ಕ
Percent occurrence	29	46	34	34	41	38	36	43	40	25	40	33	19	35	27
AVG top ht Kft	l		5.7	[7.5	l .		5.5	l		4.7	1		5.3
AVG thickness Kit			.48			. 48	l		.49	i		.47	!		. 27
RVG trap freq GHz			.32			.33	i T		.28			.35	T		33
AVG lyr grd -N/Kft	l		59	Ì		59	l		62			59	!		Ss
AVG for base Kft	l		5.4	ļ		7.1	l		5.2	į		4.4	ĺ		4.9

EVAPOPATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURE	ILE Y	EAPL	Y	J	PH-M	AF:	A1	P-3;	JN .	3:	JL-SS	P	L.	7-76	
	day	nit	den	day	nit	den	day	01:	320	day	ps * *	din	da	nit	din
0 to 10 Feet	2	1	- 2	1	:	1	2	2	2	2	2	2	2	-:	_ ī
10 to 20 Feet	3	2	2	1	2	2	1	2	2	1	2	1	t	2	2
28 to 38 Feet	3	4	3	_2	4	3	3	5	4	3	4	3	3	4	3
38 tc 40 Feet	4	7	6	4		6	- 5	\$	6	4	$-\epsilon$	- 5	4	7	
40 to 50 Feet	8	14	11	8	14	11	8	15	12	7	14	12	8	15	1.
50 to 60 Feet	2.1	20	1€	12	19	15	11	20	15	11	19	15	13	21	17
60 to 6 Feet	13	18	15	13	18	16	12	17	15	12	18	15	15	18	16
70 to 80 Feet	[11	13	12	12	14	:3	11	12	11	11	14	:2	12	13	: 3
88 10 98 Feet	9		ટ	8	7	8	9	5	8	9	s	S	5	7	s
96 to 188 Fest	€	4		6	4		ŧ	3		'6	3	5	6	4	5
above 100 Feet	32	10	21	31	18	28	33	10	2:	35	11	<i>≟</i> 3	29	9	13
Hean height Fee	1 94	66	58	93	67	80	95	65	80	93	63	83	92	66	

GENERAL METEOPOLOGY SUMMARY:

PARAMETEP	YEARL	7	JAN-	-nar	APP-J	L121	JUS	EΡ	OCT-D	EC
	day nit	dtr	day n	at den	day nit	ಚ೬೧	187 n	den	day nit	đ۶ -
% occur ELESP dets		1		2		0				<u> </u>
% occur 2+ EL dets		10	i	10		14		7	[7
AVS station N		379	l	374		3.5		381	i	388
AVG station -N/Kit		19	!	18		18		28	i	1-
AVG sfc wind Kis	14 13	13	14 :	4 11	14 13	14	14 13	13	13 12	13

Specified location: 19 83 H 63 87 H

Radiosonde source : 79866 18 83 N 53 87 N

PERCENT OCCUPRENCE OF ENHANCED SUPTAGE-TO-SURFACE PADAP ESM COM RANGES

REACEST DECI	JANEAR E OF E	инны	עבט י	SUP!	4. E -	10-21	JXFHI	. E P	4 <u>94</u> 2	FZIL	fün	KHH	<u> </u>		
FREGUE	₹CY Y	EBSL	Υ	Ji	8H-M	3R	- AI	R-JU	JH-	J	JL-31	EP	0	CT-DI	ΕC
	day	nii	d&n	day	P: C	đěn	day	nit	d&n	day	nss	den	day	nit	d: n
189 114	. 8	9	9	8	- 6	- 0	0	8	0	8	1	- 0		0	0
1 GH:	: 33	18	22	32	10	21	33	10	22	36	13	24	31	9	20
3 SH:	48	21	35	47	_21	34	48	19	34	51	24	37	46	21	33
8 GH:	83	72	77	82	73	77	81	68	75	84	73	79	83	72	.78
16 GH:	: 95	93	94	95	÷3	94	93	91	92	95	93	94	95	94	95
20 GH:	97	97	97	97	_97	97	96	96	96	97	97	97	98	97	98

Consideration of the State

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(*) INDICATES INSUFFICIENT DATA

SUPPRICE BASED DUCT SURKAPY:

PAKAMETER	YERPL	·5	3	G!+-11	iR	A	Ŗ-JI	UN	J	JL-SI	P	01	T-DE	C
	dau nit	din	de	218	d&n	day	nit	den	day	nit	d&n	day	nit	dan
Percent occurrence	4 1	2	3	3	2	1	9	1	2	4	3	8	9	
AVG thickness Kft		.40	Į		. 42	l		. 52	ŀ		.33	l		.35
AVG trap freq GHz	ì	1.3	i		. 37	i		. 42			.83	ļ		3.1
A"S for god -HTYFE		129			84	<u> </u>		188	<u> </u>		97			112

ELEVATED DUCT SUMMER'S

PARAMÉTER	Y	EARL'	y	3	Ari-H	6R	A:	PR-31	UH:	J	JL-S!	EP	- 01	CT-DI	EC
	day	211	120	day	nıt	₫&n	day	P- 1 %	dkn	day	net	den	بزعق	nit	din
Percent occurrence	33	13	53	49	6	20	34	8	17	27	52	40	30	9	—ı ₅~
AVG top ht Kft			6.3	1		5.9			6.6	į		5.6	l		6.2
AVG thickness lift	<u>. </u>		.45			. 54		_	. 41			4.4			.40
AVG trap freq GHz			.44	ļ		.26			.47			.44	ı —		.€€
AVG lun gnd -H/Kft	•		5:	;		69			62	ł		57	i		57
AVG lyr base kft	L		6.0	L		6.*	l		6.3			5.3			5.9

EVAPORATION DUST HISTOGRAM IN PERFENT OCCURPENCE:

PEPCENT OCCUR	RENCE Y	EHPL		. JF	***-**	ir.	RP	P-J:	jħ.		·L-8	P	00	T-DE	C
	dav		Sin	್ಚುರ	*11	dan	GAY	r 1 t	din	54	nit	den	Car-	กาเ	den
0 to 10 F	:e1 2	1	2	1	:	1	2	5	2	2	3	2	2	1	- 1
10 to 20 Fe	:43 1	:	3	:	2	2	1	2	Ξ	1	2	1	1	2	
20 to 30 Fe	3		3	2	4	3	3	5	_ 4	_ 3	4	3	3	4	3
30 to 40 F	151	7	6	- 4	7		4		٤	4	5	5	4	7	- 5
48 to 59 Fe	! ફર ફ	14	11	. 8	1=	11	ક	15	12	7	:4	: 1	ខ	15	12
50 tr 60 Fe	? e : :1	20	16	12	19	:5	11	28	15	11	19	15	13	≥1	1.7
60 10 78 F	t ₹ = 13	18	15	13	31	16	12	1.	:5	12	18	15	14	18	16
70 to 80 Fe	11 29	:3	12	12	14	13	1.5	12	2 1	12	1 -	12	12	13	13
98 to 98 F		_	3	8	_ 7_	3	4	6	5	۵	٤	ε	9	7	ŝ
90 to 100 F	e 5	4	5	6	4	3	6	3	4	ં		5	é	4	
above 100 Fe	et 32	10	21	31	18	20	33	10	21	35	11	23	29	9	19
eam (41 cm) F	न् _{टर} ५५	66	99	93	€7	89	95	65	- 60	98	69	a 3	92	66	79

TE .FRE METEOPOLOG' TURHARY:

PAPRMETER	YEARLY	Ī	JA	11MA	P	Ri	P-30	114	J.	12 - S	P	01	CT-D	€C
	Sam not d	<u> </u>	da-	F 1 2	350	03	n: t	dir	day	r- 1 t	din	day	212	gin
. cicum ELESE dets		2			2)		0			1			- +
1. School I+ EL dota		5			4			4	Ì		•			- 4
, P/G station N	3	69			368			355			3.7			373
AVG station -N rft		18						; 4	i		19			:9
A-6 111 1100 213	14 15	13	1=	_ 14_	- 4	14	3	14	14	13	. 3	13	.12	لغنــــــــــــــــــــــــــــــــــــ

HISTORICAL PROPAGATION CONDITIONS SUMMARY IPEPS REV 2.1

(*) INDICATES INSUFFICIENT DATA Specified location: 10 37 N 61 21 H

Radiosonde source : 78978 10 37 H 61 21 H

Radiosonde station height: 39 Feet Surface obs source: MS43 15 08 N 65 00 H

PERCENT OCCURRENCE	OF E	HHHN	CED	SURF	<u>нг Е –</u>	10-5	URFH	CE M	RDAP	ESM	Con	RHH	SES:		
FREQUENCY	Y	EARL'	Y	J	คม-ห	AR	_ Ai	PR-J	UN	J	ひしーちに	EP -	0,	CT-DE	Ēΰ
	day	nit	den	day	nit	dan	day	nit	dan	day	nit	den	day	nit	den
100 MHz	1	2	1	0	1	1	1	8	8	<u> 2</u>	2	2	1	3	2
1 GHz	35	15	25	32	15	23	35	11	23	41	17	29	32	19	26
3 GHz	50	27	38	46	28	37	58	21	35	56	29	42	47	32	48
6 GHz	83	74	79	82	75	79	82	69	75	86	75	88	83	77	SS
10 GHz	95	93	94	95	94	94	94	92	93	95	93	94	95	95	35
28 GHz	97	97	97	97	97	97	96	96	96	98	97	97	98	98	98

	SUMMENT:													
PARAMETER	YEARLY		Ji	an-Mi	3R	l Ai	PR-J	UH	31	JL-Si	EΡ	00	:T-Di	EC
	day nit	d&r	day	nit	din	day	การ	dtn	day	nit	Ç&n	day	nit	d£n
Percent occurrence	7 11	9	3	13	3	5	3	4	14	11	13	7	18	13
AVG thickness Kft	;	. 35			.34	1		. 32	ì		.36			. 38
AVG trap freq GHz		1.0			1.4			1.3			. 5%			.54
AVG 150 grd -N Kft		184		_	114			161			83	i		117

PARAPETER	Ŷ	ERRL'	r	31	AN-M	ar I	- AI	R-J	JN	J	UL-SI	EP	ŏ	T-DE	ΕL
	day	nit	g£n	dav	nit	dtn	day	กาเ	den	dav	011	d&n	day	nit	den
Percent occurrence	4.	69	54	63	69	66	53	76	65	36	50	43	37	44	41
AVG top ht Kft			7.7	1		8.3			7.3			6.7			8.5
AVG thickness Kft			-41			.43			.48			. 42			. 32
AVG trap freq GHz			.48			.38			. 30			. 40			.83
AVG lyr grd -N/Kft			68	l		61			63	i		62			56
AVG lyr base Kft	i		7.4	1		8.0			7.0	1		6.4			8.3

PEPCENT OCCU	RRENCE	YE	ARLI		J	AH-HI	RF	Ai	R-Jt	И	J:	JL-SE	2	- 00	T-DE	:C
		AU 1	111	ರಹಿಗ	day	nit	d&n	day	nit	d&r	day	nit	đần	day	nit	der
8 to 18	Feet	2	1	2	1	1	1	2	2	2	2		2	2	1	ī
18 10 20	Feet	1	2	2	ŧ	2	2	1	2	2	1	2	1	1	2	2
20 to 30	Feet	3	4	3	2	_ 4	3	3	5	4	3	4	3	3	_ 4	3
39 to 48	Feet	4	7	9	4	7	€	4	- 8	- 6	7	- 5	- 5	4	7	6
40 to 50	Feet	8	14	11	8	14	11	S	15	12	7	14	11	8	15	12
50 to 60	Fee:	11	28	16	12	19	15	11	20	15	11	1=	15	13	21	17
60 to 70	Feer	13	18	15	13	i 2	16	12	17	15	12	:8	15	14	18	1€
70 to 80 l	Feet	11	13	12	12	14	13	11	12	:1	11	1 -₹	12	12	13	13
80 10 90	Feet	٩	7	3	8	7_	8	9	6	8	٥	_ 8	8	_ 9_	7	8
90 to 100	Feet	6	4	5	6	4	5	ĥ	3	4	6	3	5	6	4	5
above 186	Feet	35	10	21	31	10	20	33	10	21	35	11	23	29	9	2.3
Mear height	Fee!	94	€6	80	93	67	80	95	65	80	98	68	83	92	66	-5

GENERAL METEORGLOGY SUMMARY:

PAPAMETER	YEAR	Y.	J	AH-MA	18	AF	R-J	UN	51	UL-SI	EP	06	T-DI	EC
	day net	<u>dł</u> n	day	7112	den	day	nit	ರ೭೨	da	ni:	gen!	da:	กาะ	din
. occur EL&SB dcts		5			6			3			5			:-
% occur 2+ EL dcis		16	1		21			21	l		15			ક
AVG station H		379	İ		372	İ		378			385			382
AVG station -N/Kft		18	l		18	i		18	l		19			19
A'S of c uend has	14 1	13	14	14	14	14	13	14	14	13	13	13	12	13

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Specified location:

16 16 N 61 31 H Padiosonde source: 78897 16 16 N 61 31 N

Radiosonde station height:

હિંદહિંદીઓ કે મહેનાં મહિલ્લાનો મહિલ્લાનો મહિલ્લાનો કરો છે.

23 Feet Surface obs source: MS43 15 80 N 65 00 H

PEPCENT OCCUPRENCE OF ENHANCED SUPFACE-TO-SUPFACE PADAP EEM COM PANGES:

FREQUENCY	Y	EARL'	Y	J	AN-H	AR	P:I	PR-J	JH	Je	JL-56	P	9	T-D!	EC.
	day	กาเ	din	day	ntt	din	day	nit	den	day	n::	din	day	nit	dsn
100 HHz	3	9	2	2		1	1 4	- 0	2	3	9		5	- 8	3
1 GH≂	41	11	2€	37	12	24	42	11	27	43	12	28	42	11	2 -
3 GHz	56	22	39	52	23	38	57	29	39	58	23	41	58	23	÷õ
6 GHz	86	72	-9	84	74	79	85	69	77	87	73	88	87	-3	8.9
10 GHz	96	93	94	95	93	94	95	91	93	96	93	94	97	94	95
20 GHz	98	97	9?	97	97	97	97	96	96	98	97	97	98	97	58

CUIDEACE PACED BUCT CHANGEV.

PARAMETER	YEAPL	7	31	AH-HI	38	A	R-J	ЛH	31	J- 38	EF	C(T-Di	E :-
	day nit	den	day	r 1 t	d&n	dav	nit	den	Jay	2111	d&ri	day	nit	den
Percent occurrence	22 3	12	16	4	10	21	2	12	20	2	11	30	3	:7
AVG thickness Xft		. 41			.38	ŀ		.43	ł		. 44	i		.37
AVG trap freq GHz		. 62			.86			.50			. 53			.53
AVG lyr and -N/Yft		80			113			74	i		73			62

ELEVATED DUCT SUMMARY:

PARAMETER	YI	EARL'	Y	J	M-NA	AR	Ai	PR-J	UH	71	JL-S	F	1 0	T-D	EC
	dav	nit	den	dau	n11	dan	day	nit	din	day	nit	dan	day	nit	din
Percent occurrence	29	39	34	38	54	46	36	40	35	18	28	23	25	33	
AVG top ht lift	Ī		7.3	1		7.0	ĺ		7.2	[6.7	[7.2
AVG thickness Kit			.43	i		.51			. 4 ?	I		.41	1		. 36
AVG trap freq GHz			.49			.31			. 45			.55			.65
RYG lyr grd -N/Kft	1		57	1		58	İ		57	1		57	1		55
AVG lyr base Ift			6.7	l		6.6			6.9			6.4	ĺ		6.9

E APORATION DICT MICTOCRAM IN DEPOCHE ACCURACION.

PERCENT OCCUPPENCE	Į YE	EAPL	ř.	J:	AN-HI	38	A.	?R-JI	Hi	J	JL-5i	EP	ت ت	. T - Di	
	150	nit	dsn	da	nit	din	day	11:0	d&n	day	nit	dīn	da :	nit	dsn
0 to 10 Feet	2	1	2	1	1	1	2	2	- 2	2	2	2	2	1	ı
10 to 20 Feet	1	2	2	1	2	2	1	2	2	1	2	1	1	2	2
28 to 30 Feet	3_	4	3	_2	_4	3	3	. 5	4	3	4	2	3	٠.	3
30 to 40 Feet	4		6	4	7	- 5	4	8	<u> </u>	4		5	-	7	
40 to 50 Feet	8	14	11	8	14	11	8	15	:2	7	14	11	ક	15	12
50 to 60 Feet	11	20	16	12	15	15	11	20	15	11	19	15	13	21	17
50 to 70 Feet	13	18	15	13	18	16	12	17	15	12	18	15	14	18	16
70 to 80 Feet	11	13	12	12	14	13	11	12	11	1:	14	12	12	13	13
80 to 90 Feet	9		3	8		8	Ş	ö	8	9	છ	8	9	:	8
90 to 100 Feet	6	4	5	6	4	5	-6	3	4	6	3	5	15	-4	5
above 100 Feet	32	10	21	31	10	20	33	19	21	35	11	23	29	ġ	19
Nean height Feet	94	હેક	80	93	67	50	95	65	80	98	ન્દે ક	8.5	22	66	-3

GENERAL METEOROLOGY SUMMARY:

PAPPHETER	YER	PLY	7	Jŕ	राग-रा	ŘΡ	AF	P- J	11.	7	UL-31	EP	00	T-DE	<u> </u>
	330 5		d ² n	day	T: 1 1	din	Cay	17:12	di.	¢3	211	ರಕ್ಷಣ	Ja.	nit	den
. occur EL&SB dcts			3			4			3			2			
. occur 2+ EL dcts			4			6			4	i		1	i		5
AVG station H			376			368			376			382	1		3.79
AVG station -N/kft			18			17			13			19	İ		; 4
AVS afc wind Fis	14	13	13	14	14	14	14	13	14	14	13	13	13	12	13

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMAPY

Specified location: 18 25 M 66 00 W (+) INDICATES INSUFFICIENT DATA

Radiosonde source : 78526 18 25 N 66 00 W Radiosonde station height: 10 Feet

Surface obs source: MS43 15 00 K 65 00 H

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM PAUCES:

THE CHAIL	OCCUPACION	0, E	. 117/1/1/1	-	30		· v - 2	30 F FT		CLDICE	E 3,,			323		
FRE	QUENCY	Y	EARL'	Y	J	H-H9	₹R	AI	P-31	UH	J1	JL-SI	EP	30	CT-Di	EC
		day	nit	d&n	day	ກາເ	d&n	day	nit	den	day	nit	din	Jav	712	dan
199	HHZ	1	- 0	1	1	1	1	2	9	1	1	0	1	1	8	0
1	GHZ	35	11	23	32	12	22	37	11	24	38	12	25	31	10	21
. 3	GHz	56	_22	36	4.7	23	35	_52	28	36	53	23	38	46	22	34
6	GHZ	83	72	78	82	74	78	83	69	76	85	73	79	ರೆತ	73	t
10	GHz	95	93	94	ļ 95	93	94	94	91	93	95	93	94	95	94	-
28	GH ₇	97	97	97	97	97	97	96	96	96	98	97	47	48	97	بوث

SUPPRIE RASED BUCT SUMMARY.

SURFACE SHOED DUCK	SURINK I .				
PARAMETER	YEARLY	JAN-HAR	APP-JUN	JUL-SEP	OCT-DEC
	day nit dên	day nit dan	day nit den	day nit dan	day nit d'n
Percent occurrence	7 3 5	4 4 4	18 2 6	9 2 6	₹ 3 ·
RVG thickness Kft	.42	.41	.45	.48	. :3
AVG trap freq GHz	.87	.87	.66	.67	1.3
AVG lyr grd -NYFt	138	135	132	191	54

ELEVATED DUCT SUHMARY:

PARAMETER	Y	EARL'	Y	J	AH-M	AR	A	PR-JI	DH.	J	L-51	EP	9	T-D	ĒC
	day	nit	d&n	day	ការ	dan	day	nit	d&n	day	r 1 *	dan	dav	nit	den
Percent occurrence	38	47	42	52	64	58	35	48	42	26	34	38	37	41	-35
AVG top ht Kft			7.2	ł		7.3			7.1	ŀ		6.8			7.7
AVG thickness Kft	i		.43			. 52	L _		. 42			.43			. 36
AVG trap freq GHz			. 40			. 25			. 40			. 44			Τ::
AVG lun grd -N/Kft			60	l		61	i		61	ĺ		61	İ		59
AVG lyr base Kft			5.9	l		6.9			6.8			6.5	l		7.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPPENCE:

EANLERHIION DOC! HI															
PERCENT OCCURRENCE	[YI	EARL	r	J	AN-MA	AR.	A	J	υN] J.	L-56	P	01	CT-DE	C
	day	nit	den	day	n12	d&n	day	nit	din	day	711	atr	Cab	nit	ರ್ಷಣ
0 to 18 Feet	2		2	1	1	1	2	2	2	2	- 2	- 2	2	1	i
10 to 20 Feet	1	2	2	1	2	2	i :	2	2	1	2	1	1	2	2
20 to 30 Feet	3	_ 4	3	2	4	3	3	_ 5	4	3	4	. 3	3	4	3
30 to 40 Feet	4	7	6	4	7	6	4	8	- 6	4	6	- 5	1 4	7	_ =
40 to 50 Feet	8	14	11	8	14	11	8	15	12	7	14	11	8	15	: =
50 to 60 Feet	11	20	16	12	19	15	11	20	15	11	19	15	:3	21	
60 to 70 Feet	13	18	15	13	18	16	12	1.	15	12	18	15	14	18	16
70 to 80 Feet	11	13	12	12	14	13	11	12	11	11	14	12	12	13	: 3
80 to 90 Feet	9	_ 7	8	8	7	8	_ Q	6	8	9	3	8	وا	7	ક
98 to 100 Feet	6	4	5	6	- 4	5	0,0	3	4	6	3	- 5	E	4	5
above 100 Feet	32	10	21	31	10	20	33	18	21	35	11	23	29	9	. 9
liean height Feet	94	- 66	88	93	67	69	95	-65	86	98	€8	83	92	66	- 2

GENEPAL METEOPOLOGY SUMMARY:

Į	PARAHETER	YE	RRL	r	Jf	11:-11	AR	6.5	1I ~ 34	JN .	J	<u> - 51</u>	P	GS	T-DI	
1		day	nit	d&n	day	nit	dtn	day	nit	din	day	nit	d&n	dav	n1:	d:n
- 1	% occur EL&SB dcts			1			2			1		-	1			7
J	% occur 2+ EL dcts			7	j		10	ļ		6	İ		5	İ		8
1	AVG station N			367			359			36?			376			367
1	AVG station -N/Kft			16			15	!		16			17			16
Į	AVG afc wind Kts	14	13	13	14	14	14	14	13	14	14	:3	13	13	12	ᆣ

Specified location: Radiosonde source : 78486 18 28 N 69 52 H

18 28 N 69 52 W (+) INDICATES INSUFFICIENT DATA

Radiosonde station height: 43 Feet

Surface obs source: HS43 15 00 N 65 00 H

FREQ	UENCY	Y	EARL'	Ÿ	J	AN-81	ar -	Ai	PR-J	JN .	ij	JĒ-51	EP	0	CT-DE	EC
		day	nîı	d&n	day	nıı	den	day	nıt	d&n	day	nit	d&n	day	nıt	den
199	HHZ	3	4	3	2	4	3	3	3	3	4	5	4	3	4	3
1	GHZ	39	23	31	36	24	30	49	21	38	44	27	36	37	22	30
3_	GHZ	54	_ 36	45	51	37	44	55	32	43	59	41	50	53	35	_44
6	GHZ	85	77	81	34	78	81	84	74	79	87	80	83	85	78	82
16	GHZ	95	94	95	95	95	95	94	93	94	96	95	95	96	95	96
20	GHz	97	97	97	97	97	97	96	97	97	98	97	98	98	98	98

SUPPRICE BASED DUCT SUMMARY:

PARAMETER	Y	EARL	Y	7	311-MI	PR :	AI	マスースリ	אנ	- 31	JL-SE	P	-06	T-DI	EC
	day	nit	dan	day	nit	d&n	day	nit	dan	day	nit	d&n	da	n t	d&n
Percent occurrence	:7	23	28	12	23	18	15	19	17	20	28	24	19	22	21
AVG thickness Kft	İ		.40	l		. 40	i		.42	İ		.41			. 36
AYG trap freq GHz			.51			.50			.49			.49			. 58
HVG lyn and -N-Kft			70	i		67	l		7:		_	67			74

FIEVATED BUCT SURMARY.

PARAMETEP	Y	EARL	Ϋ́	J	AH-HI	AR .	- A1	PR-J	ЯŲ	Jı	JE-SI	P	- 00	CT-Di	C
	day	nıt	d&n	day	nit	din	day	110	d&n	day	nıt	d&n	day	nıt	dan
Percent occurrence	35	44	39	44	45	45	37	51	44	27	35	31	31	44	36
AVG top ht Kft			7.4			7.8	l		7.3	ł		6.0	l		8.4
AVG thickness Ift	1		. 42			. 44	ĺ		.44	1		.41	ı		.41
AVG trap freq GHz			.37			.33			. 35			.41			. 40
AVG lyr grd -N/kft			68			61	ĺ		60			57	l		62
AVG lyn base Kft			7.1	ļ.		7.5			7.0			5.7	1		8.1

EMAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

FERCENT	OCCURPENCE	Y	ARL	7	J	ลห-หเ	ir	AI	PR-J	UN	J	UL-SI	ΕP	01	CT-DE	EC
·		day	nit	d&n	day	nıt	<u>đěn</u>	day	nit	den	day	r-12	dtr	day	nıt	d\$n
0 10	10 Feet	2	1	2	1	1	1	2	2	2	2	2	2	2	1	1
10 10	28 Feet	1	2	2	1	2	2	1	2	2	1	2	1	1	2	2
20 10	38 Feet	3	4	3	2	4	3	3	5	4	3	4	3	3	4	3
30 to	40 Fiet	1 4		6	4	7	6	1	8	- 5	4	- 6	5	4	7	6
40 10	50 Feet	8	14	11	8	14	11	8	15	12	7	14	11	3	15	:2
50 15	FO Feet	11	_20	16	12	19	15	1 11	28	15	11	19	15	13	21	17
€0 to	70 Feet	13	18	15	13	:8	16	12	17	15	12	18	15	14	18	16
70 10	SO Feet	11	13	12	12	14	13	11	12	11	11	14	12	12	13	13
86 10	90 Feet	9	7	8	8	7	8	9	6	8	9	8	8	9	7	8
90 10	100 Feet	6		5	5	4	- 5	6	3	4	6	3	5	6	4	- 5
above	100 Feet	32	10	21	31	10	20	33	10	21	35	11	23	29	9	19
Hean he	ight Feer	94	66	80	93	67	89	95	65	80	98	68	83	92	66	79

GENERAL METEOPOLOGY SUMMARY:

PAPANETER	YEARLY	JAN-NAP	APR-JUN	JUL-SEP	OCT-DEC
	da nit dan	day nit dan	day nit den	day nit dan	day nit den
% occur EL&SB dcts	7	7	7	6	8
j: occur 2+ EL dets	8	8	16	5	8
AVG station H	378	369	378	386	377
AVG station -N/Kft	19	18	19	20	19
AUG si- usnd kis	14 13 13	14 14 14	14 13 14	14 13 13	13 12 13

IREPS REV 2.1

HISTORICAL PROPAGATION CONDITIONS SUMMAR.

(*) INDICATES INSUFFICIENT DATA

Specified location: 19 54 N 75 89 W Radiosonde source: 78367 19 54 N 75 89 W

Radiosonde station height: 75 Feet

Surface obs source: MS44 15 00 N 75 00 H

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/FSM COM RANGES:

FREQUENCY	Y	'EARL	Υ —	J	ยห-พ	RR	A!	PR-J	JИ	J	JL-SE	EP	0	CT-D!	EC
	day	nit	dan	day	nit	d&n	day	nit	d&n	day	nıt	dan	day	nit	der
100 MHz	3	3 4	3	1 2	5	2	2	5	4	4	4	4	4	5	
1 GHz	36	23	29	32	16	24	33	24	29	40	26	33	38	25	32
3 GHz	51	36	43	48	38	39	47	36	41	55	39	47	52	39	46
6 GHz	82	76	79	82	76	79	89	73	78	84	78	81	83	77	86
10 GHz	94	93	94	94	93	93	92	93	93	94	94	94	95	93	9.
28 GHz	96	97	97	96	97	97	95	95	96	97	97	97	97	97	9,

CUPEACE RASED DUCT SUMMARY.

CONFUCE RASED DOG! 2	CAMBRINE.													
PARAMETER	YEARL	Υ	Ji	H-HE	AF.	Al	FR-JI	ЭK	J	JĽ-SI	P	00	T-DE	C
	day nit	den	day	nıı	dan	day	nit	dan	day	nit	dan	day	nit	d₹n
Fercent occurrence	15 19	17	10	10	19	11	22	17	22	22	22	17	22	20
AVG thickness Kft		.41	ĺ		.42	ĺ		.43	ĺ		.38	ĺ		.41
AVG trap freq GHz		.39	l		. 45	i		.34			. 42			.36
AVG 1:r grd -N/Kft		88			87		_	85	L		_80		_	99

ELEVATED BUCT SUMMARY:

PARAMETER		EARL	Υ	J	AH-MI	R.	Al	PR-JI	JN	J	JL-SI	P	01	T-DI	ĒČ —
	day	nit	_ d &n	day	210	den	day	nit	d&n	day	nit	dtn	day	nıı	de s
Percent occurrence	46	51	48	59	60	60	49	52	51	29	48	39	45	43	45
AVG top ht Kft	i		7.3	ļ		7.2	l		7.5	1		6.9	!		7.4
AVG thickness Kft			.39			.43	i		.39			.37	İ		. 37
AVG trap freq GH2			.40			.29			.44			.46			.41
RYG lyr grd -N/Kft			63			55			63	l		59			64
AVG lyr base Ift			7.0	L		6.9	l		7.3	l		€.6			7.2

EMAPORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PERCENT OF	CURRENCE	Y	EARLY	7	J	AN-H	AR	Al	R-J	Jh	J	L-SI	P	0.	T-DE	C
		day	P12	den	dav	nit	dan	day	nit	dan	day	nıt	dan	day	nit	át i
3 to 18	Feet	2	_ 2	2	2	Z	2	3	2	3	2	2	2	2	1	_ 1
18 to 28	Feet	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2
20 10 30	Feet	3	4	4	3	4	3	3	5	-4	3	_4	_ 4	3	4	4
30 to 40	Feet	5	7	6	5	7	- 6	5	8	7	5	7	-6	5.	7	- 5
40 10 50	Feet	8	13	11	8	12	10	8	15	12	8	13	10	9	14	12
50 10 60	Feet	12	18	_15	11	17	14	12	19	16	11	18	14	12	18	: 5
60 to 70	Feet	:3	17	15	13	18	15	13	17	15	12	18	15	13	17	15
70 to 80	Feet	:2	13	13	13	15	14	11	12	12	12	13	13	11	13	12
80 to 90	Feet	٩	ಕ	_ 8	10	. 9	9	9	- 6	8	ب	8	ક	9	8	ક
90 to 19	3 Feet	6	- 4	- 5	7	5	6	5	3	4	6	4	5	6	5	5
above 10	B Feet	28	i 1	19	27	18	18	27	9	18	29	12	21	29	: 1	20
Mean heigh	nt Feet	99	67	_78	87	_68	77	88	- 65	76	90	69	79	50	67	٠.

GENERAL HETEOPOLOGY SUMMARY:

PRRAMETER	YEAR	Y.	36	AN-Mi	ar.	AF	P-J	JH	J	JL-SI	ΕP	Q	CT-DI	C
	day ni	den	day	N12	den	day	nit	din	day	nı.	dt.	Jav	A1 t	don
% occur EL&SB dcts		-6		_	4			6			ક			ક
": occur 2+ EL dcts		15	l		17			17	l		13			13
AVG station N		370	l		358			371	ŀ		377	ŀ		372
RVG station -N/Kft		18			16			19	i		19			19
AVG sfc wind Kts	16 1-	15	17	16	16	16	15	15	15	14	15	14	13	14

IREPS REV 2.1

Specified location:

18 04 N 76 51 W 18 04 H 76 51 W (*) INDICATES INSUFFICIENT DATA

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Radiosonde source : 78397

Padiosonde station height: 3 Feet Surface obs source: MS44

15 00 N 75 00 H

PERCENT ACCURRENCE AS EMMANGED AMBRACE_TO_CHISTORY DATABLESM (AN DALIES.

FREQUENCY	Y	EARL	γ	71	AH-MI	BR	A	PR-JI	UN		JL-SE	EP	0	CT-DI	EC
!	day	nit	d&n	day	nit	d&n	day	n ı t	din	day	nit	d&n	day	nit	dtri
100 NHz	4	4	4	3	4	4	4	5	5	3	5	-4	3	- 4	4
1 GH=	37	25	31	35	25	30	39	26	33	38	26	32	38	23	30
j 3 GHz	52	38	45	52	40	46	53	38	46	52	39	46	52	37	43
6 GHz	83	78	89	83	60	82	83	76	79	83	78	81	83	76	89
10 GHz	94	94	94	94	94	94	93	93	90	94	94	94	98	93	94
20 GHz	97	97	97	97	97	97	96	97	96	97	97	97	97	97	97

SURFACE BASED BUCT SUMMARY:

PARAMETEP	YEA	RLY	J	AN-MA	ìR	AF	R-Jt	JN	JI	JL-SE	Ρ	00	T-D9	:€
	day n	it dan	day	nit	dån	day	nıt	d&n	day	nit	d&n	day	nıt	ರಕಾ
Percent occurrence	19	23 21	17	25	21	23	26	25	16	22	19	18	20	19
AVG thickness Kft		.39	1		.41			.39	1		.37			.37
AVG trap freq GHz	1	.42	ĺ		.48	ĺ		.42	l		.37			.43
AVG lyr ord -N/Yft	L	78	1		81			79			7?			. 4

ELEVATED DUCT SUMMARY.

PARAMETER	Y	EARL'	ř	Ji	111-116	RR -	AI	PR-JI	JN	Jŧ	JL-Sī	P	00	T-DI	EC
	dae	nit	din	day	216	d&n	day	nıt	d&n	day	nit	dŧn	day	nit	d%n
Percent occurrence	29	37	33	42	47	45	28	40	54	26	25	23	26	36	31
AVG top ht Kit			7.7	l		8.2			7.8	l		6.7			8.2
AVG thickness Ift			. 40			.46			.36	i		.33			. 44
AVG trap freq GH=			. 50			.32			.58			.69			.41
AVG lyn gnd -N/Kft	l		58			68	1		59	i		55	l		60
AVG for base Kft			7.4	l		7.8			7.5	1		6.4	_		7.9

E-APORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PEPCENT O	CCUPRENCE	rl	EARL'	:	31	AH-M	AR	A	PR-JI	JN	J	UL-S	ΕP	Ó	T-DE	C
L		da,	การ	dtn	day	nit	d&n	day	nit	d&n	day	nit	dan	dav	nıt	dun
9 to 1	0 Feet	5	2	2	2	2	2	3	2	3	2	2	2	5	1	1
18 to 2	0 Feet	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2
20 to 3	0 Feet	3	4	4	3	4	3	3	5	4	3	4	4	3	4	4
30 to 4	0 Feet	5	7	6	5		6	5	8	7	57	7	6	5	7	- 6
40 to 5	0 Feet	8	13	11	8	12	18	8	15	12	8	13	16	9	14	12
59 10 €	8 Feet	12	18	15	11	17	14	12	_19	16	11	13	14	12	18	15
60 10 7	0 Feet	13	:7	15	13	18	15	13	17	15	12	18	15	13	17	15
70 to 8	O Feet	12	13	13	13	15	14	11	12	12	12	13	13	11	13	12
80,15 4	O feet	9	8	8	10	9	9	9	6	ક	9	8	8	j 9	8	૩
90 to 1	OB Fee	6		5	7	5	6	5	3	4	6	4	5	- 6	5	5
&bov€ 1	00 Feet	28	11	19	27	10	18	27	9	18	29	12	21	29	11	20
Meg: res	ght Feet	99	57	78	97	68	77	88	65	76	90	€9	79	89	67	78

GENERAL METEOPALOGY SUMMAPY:

PAPAMETER	YEAR	Ŷ	JF	111-111	ĸ	AP	R-J	ИU	JU	JL - 38	P	0.	T-Di	C
	dan nii	den.	day	nit	g*n	day	nit	dīn	day	njt	dtn	day	nit	dyn
. occur EL&SB dcts		6			8			9.			4			5
% occur 2+ EL dcts		5	i		8			ŧ			3	i		4
AVG station N		372			366	ĺ		372			376	i		373
AVG station -N/Kft	1	18	l		17			13			18	į		17
AVG are and his	16 1	15	17	16	15	16	15	15	15	14	15	14	13	14

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

Specified location:

19 19 N 81 21 N

(+) INDICATES INSUFFICIENT DATA

Radiosonde source : 78384 19 19 N 81 21 N

Radiosonde station height: 10 Feet

Surface obs source: MS81 25 00 N 85 00 N

FERCEN	T OCCURRENCE	OF F	4- JH.	ED S	SURF	4 <u>CE-</u>	<u> 70-51</u>	PFR	CE RI	SPUS	/ESM	COM	RAK	<u>GES:</u>		
F	REQUENCY	Y	EULL.	Y	J	AN-M	AR	RI	PR-J	ÚŇ	1	UL-S	EP	0	CT-D	EC
Ĺ		day	nıt	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	រះជ	d? ^
1	00 NH2	2	2	2	1	1	1	1	1	1	3	2	2	2	2	2
1	1 GHz	35	16	25	27	11	19	36	17	27	42	18	39	34	18	26
l	3 GHz	47	_26	37	39	20	29	46	26	36	52	28	48	50	32	41
	6 GHz	79	69	74	74	61	67	75	65	70	83	74	78	83	75	79
1	10 GH2	92	89	91	89	86	87	98	88	29	94	92	93	94	92	93
L	28 GHz	95	95	95	93	92	93	94	94	94	97	97	97	97	95	36

PARAMETER	Y	EARLY	4	J	AN-M	er	A!	R-J	JH	31	JL-SE	P	90	T-Di	ΕC
	day	nit	dan	day	nit	dån	day	nit	din	day	nit	dån	day	nit	din
Percent occurrence	12	10	11	7	6	7	9	8	9	17	10	14	15	14	15
AVG thickness Kft	l		.41	1		.41	l		. 45	i		. 49			. 30
AVG trap freq GHz	•		.59	ĺ		.63	ĺ		. 63			. 55			.59
AVG lyn god -H hat			101			131			97	_		98	_		85

PARAMETER	71	EARL'	Y	J	AH-M	AP	Ri	PR-JI	UH -		UL- 5!	P	Ü	CT-D	ĒĆ
	day	nıt	d&n	ر ی	nit	dtn	day	nıt	dan	day	fi't	<u>ರಕ್ಕ</u>	day	nit	dan
Percent occurrence	38	46	42	49	53	51	37	59	44	26	33	38	38	47	40
AVG top ht kft	ĺ		6.5	ĺ		6.9	ĺ		6.2	l		5.6			7.4
A'G thickness Ift			.47	l		.49	į		48			.46			. 44
AVG trap freq GHz			.35	\Box		.29			. 35			.34			.40
SVG lyn and -HZKft	ĺ		58	1		63			59	ſ		56	[દ૩
AVG for base rft			6,2	1		6.6	i		5.8	l		5.2	ŀ		7.1

EVAPOPATION DUCT HISTOGRAM IN PERCENT OCCURPENCE;

PERCENT OCCUR	RENCE	YE	ARL	7	31	RN-HE	1R	Al	R-JU	JH	J,	ri-SE	Ρ	00	T-DE	C
	(d	lav	nit	d&n	day	-12	d&n	day	nit	dan	dau	กาเ	<u>ran</u>	day	n11	d&n
0 to 10 F	CES	3	2	3	5	4	5	4	3	3	2	<u>i</u>	1	2	2	2
10 to 20 F	eet	2	4	3	3	4	3 !	3	4	4	2	4	3	1	3	2
20 to 20 F	eet	4	_ 6_	_ 5	4	. 7	6	4	7	5	_ 4	ಶ	_ 4	_3	_5	4
30 to 40 F	eet	-5	- 8	7	6	10	8	6	9	8	5	- 6	ò	5	7	_ =
40 to 50 F	eet	9	14	12	10	15	13	10	15	13	9	13	11	8	12	16
50 to 60 F	eet	12	18	15	12	18	15	13	18	15	13	20	16	11	16	14
60 to 70 F	66:	13	16	14	13	15	14	11	14	13	13	18	16	13	17	15
70 to 80 F	eet	10	12	11	11	11	11	8	9	9	9	12	11	13	15	14
80 to 90 F	cet	7	. 6	_ 7	7	_5	6	6	5	5	_ 6	. 5	. 6	10	8	9
90 to 100 F	299	4	3	4	4	3	4	4	2	3	4	3	ω	6	5	6
above 100 F	eet	30	11	28	24	8	16	32	13	23	35	13	24	27	10	19
Mean heigh:	Feet	91	65	72	9:	60	70	93	- 66	79	100	70	85	90	67	۶۶

PEHERNE WE FOLDER	ZOWWHEA!				
PAPAHETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit din	Jan nit den	day nit san	day nit din	day nit dan
% occur EL&SB dcts	3	2	2	2	6
% occur 2+ EL dcts	10	11	10	5	14
AVG station H	381	372	382	388	386
AVG station -N/Kft	20	19	2:	21	19
AVG SEC wind his	12 12 12	14 13 14	12 11 11	10 10 10	14 13 13

Specified location:

(*) INDICATES INSUFFICIENT DATA

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Padiosonde source : 80001 12 34 N 81 42 H Radiosonde station height: 7 Feet Surface obs source: MS44 15 00 H 75 00 W

12 34 N 81 42 H

FREQUENCY	1 7	EARL'	7	J	AN-M	RR	AI	PR-JI	JN	J	UL-SI	EF	0.0	CT-D	EC
	day	nit	dŧn	day	nit	dŧn	day	การ	dan	day	nit	d&n	day	nit	de-
100 HHz	3	4	3	3	5	4	2	3	2	2	4	3	4	4	-4
1 GHZ	35	25	30	34	29	32	32	21	27	35	26	31	46	25	32
3 GH2	51	40	45	51	45	48	47	33	43	5:	46	45	55	40	48
6 GHz	83	78	80	83	82	83	80	74	77	82	79	81	84	-78	- 31
10 GHz	94	94	94	94	95	95	92	93	93	94	94	94	95	93	-4
20 GHz	96	97	97	97	98	97	95	96	9€	97	97	97	પુર	97	97

SUPFACE BASED BUCT SUMMAPY:

PARAMETEP	YI	ERPL'	Y	J	RH-H	ar _	គរ	PR-JI	JH.	J	JL-SE	P	_ 00	T-D!	EC
	day	711	d&n	day	nıt	dan	day	nıt	dan	day	การ	dŧn	day	nıt	din
Percent occurrence	17	28	23	17	34	26	12	22	17	14	27	21	2€	28	2,
AVG thickness Kft	ļ		.32			.36	l		.30	1		.32	1		. 29
AVG trap freq GHz	ĺ		.66			. 59			.76	[.66	•		.69
A ^u G lyr grd -tl/Kft	ĺ		. 79			98			82	1		89	l		66

PARAMETER	YI	EAPL	ř	Ji	A7:-11	AR	Al	PR-JI	אט	J	JL-51	P	01	CY-DI	C
:	dau	nit	d&n	day	1:11	den	day	nıt	dan	day	nit	d&n	day	กาเ	den
Percent occurrence	38	33	36	57	45	51	39	33	36	23	22	23	32	33	33
AVG top ht Kft	[6.8	1		7.0	ĺ		6.8			6.1			7.3
AVG thickness Kft			.42			.43			.44			.42			. 40
AVG trap freq GHz			.40			.41			.36			.40			.45
AVC lyr grd -H/Kft			58	i		57	ĺ		60			57			57
APG for base Fft	l		5.5	L		6.6	L		6.5	l		5.8			7.0

ETRATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT OCCURRENCE	Y	EARL	¥	J	H-11A	AR	A	PR-J	UH	J	UL-S	EP	0	CT-Di	EC
	Cay	111	d2n	day	nit	dan	day	nıt	dan	dav	nı*	den	day	การ	din
0 to 10 Feet	2	- 2	2	2	2	2	3	2	3	2	2	2	2	1	1
10 to 20 Feet	2	2	2	2	2	2	[2	2	2	2	2	2	2	3	2
20 to 30 Feet	3	4	4	3	4	3	_ 3	5	4	3	4	4	3	4	4
30 to 40 Feet	5	-7	- 6	5	7	- 6	5	- 8	7	5	7	6	5	7	;
40 to 50 Feet	٤)	13	11	8	12	10	8	15	12	8	13	19	9	14	12
50 to 60 Feet	12	18	15	11	17	_ 14	12	19	16	11	18	14	12	18	15
60 to 70 Feet	13	17	15	13	18	15	13	17	15	12	18	15	13	17	15
70 to 80 Feet	12	13	13	13	15	14	11	12	12	12	13	13	11	13	12
80 to 90 Feet	9	8	8	10	9	9	9	6	8	9	8	8	و ا	8	8
90 to 100 Feet	6	- -	5	7	5	6	5	3	4	É	4	- 5	9		
above 100 Feet	28	11	19	27	16	18	27	9	18	29	12	21	29	11	20
Kean height feet	89	57	78	87	68	77	88	65	76	99	69	79	89	67	78

GENERAL HETEOPOLOGY SUMMARY:

day nit													
	<u> </u>	Cay	nı:	dtn	day	nit	din	day	nit	d&n	day	nit	dtri
	8	i		12			7			4			9
	8	l		12			7			4	ĺ		7
	383	1		376			384			388	i		384
	19	ĺ		19	ĺ		19			20			19
16 14	15	17	16	_ 16	16	15	15	15	14	15	14	13	14
-	16 14	8 383 19 16 14 15	8 8 383 19 16 14 15 17	8 383 19 16 14 15 17 16	383 376	383 376 19 19	383 376 19 19	383 376 384 19 19 19	383 376 384 19 19 19	383 376 384 19 19 19	383 376 384 388 19 19 19 20	383 376 384 388 19 19 19 20	383 376 384 388 19 19 19 20

Specified location: 17 24 N 83 55 W (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 78501 17 24 N 83 55 N Radiosonde station height: 30 Feet

Surface obs source: MS81 25 00 N 85 00 N

PERCENT OCCUPRENCE OF ENHANCED SUPFACE-TO-SURFACE RADAR-ESM COM PANCES:

PERCEILI OCCORRENCE	<u> </u>	14 11 11 11	<u> </u>	30r i	<u> </u>	. 0 3	JE F FI		npne	<u> </u>	. 011	* 11111	<u> </u>		
FREQUENCY	Ϋ́	EARL'	Υ	J	AN-MI	R	AF	R-JI	UN	Ju	ルーち	P	01	CT-DE	EC
L	day	nit	d&n	day	nit	dtn	day	nit	dan	day	nıt	d&n	day	nit	dån
188 MHz	8	1	1	1	2	1	0	1	1	0	1	-1	0	1	1
1 GHz	31	15	23	26	14	20	33	16	25	36	17	26	25	13	21
3_GHz	43	25	34	37	23	30	43	24	33	45	26	35	45	26	36
6 GHz	77	68	73	73	63	68	74	64	69	88	7.3	76	81	73	77
18 GHz	91	89	98	89	86	88	90	87	88	93	92	92	93	91	92
20 GHz	35	95	95	93	93	93	94	94	94	97	97	97	96	96	95

SUPPOSE BASED DUCT SUMMARY:

PARAMETER	YI	ARL'	Υ	J	AN-M	AR .	AF	R-J	ŲN	Ji	JL-SI	Ρ	00	T-DE	<u>.</u>
	day	nit	dân	day	nit	dan	day	nit	dtr.	day	nı:	den	Cay	nit	<u>din</u>
Percent occurrence	3	-8	6	5	12	9	3	7	5	2	7	5	3	- 6	- 5
AVG thickness Kft			. 34			. 37	ĺ		.28	l		.33	i		.36
AVG trap freq GHz			.88			1.0	ľ		1.1	i		.63	ľ		.77
AVG lyr grd -N/Kft	i		140			200	L_		126		_	126			186

ELEVATED DUCT SUMMARY:

EFFAHIEN NOCT ZOUWH	_														
PAREMETER	Y	EARL'	۲	J	M-KA	RR) Al	PR-JI	JH	Jı	ノレー51	EP	j 01	CT-DE	EC
	day	nit	d&n	day	nit	dan	day	nit	din	day	nit	dan	day	nit	dt.
Percent occurrence	42	40	41	57	56	57	41	39	40	30	25	28	38	41	40
AVG top ht Kft	1		6.8	ĺ		7.4	ŀ		6.8	•		5.€	i		7.5
AVG thickness Kft	i _		. 42			.48	l		. 43	1		.36	l .		.42
AVG trap freq GHz			. 42			.29			.46			.53			. :9
AVG lyr grd -H/Kft			68			63			57	•		59			61
AVG for base Kft			6.5			7.0	i		6.5			5.4			7.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT O	CCURRENCE	YI	EARL		J	AH-H	R.	A	PR-J	UH	J	UL-S	EP	00	T-DE	
		day	nit	dan	day	การ	đần	day	nit	d&n	day	nit	d&n	day	nit	den
0 to 1	0 Feet	3	2	3	5	4	5	4	3	3	2	<u>i</u>	1	2	2	Ž
10 to 2	0 Feet	2	4	3	Jз	4	3	3	4	4	2	4	3	1	3	2
20 to 3	C Feet	4	6	5	4	7	€	4	7	5	4	5	4	3	_ 5	4
30 to 4	e Feet	5	8	7	6	10	8	6	9	8	5	6	E	5	7	
40 to 5	e Feet	9	14	12	19	15	13	10	15	13	9	13	11	8	12	દ છ
59 10 6	6 Feet	12	18	15	12	18	15	13	18	15	13	28	16	1.1	16	14
60 to 7	0 Feet	13	16	14	13	15	14	11	14	13	13	18	1€	13	17	15
70 to 8	8 Feet	18	12	11	11	11	11	8	9	9	و ا	12	11	13	15	14
80 to 9	8 Feet	_7	6	7	7	5	6	6	5	5	6	6	_ 6	18	8	9
90 to 1	00 Feet	4	3	4	4	3	4	4	2	3	4	3	3	ō	5	6
above 1	00 Feet	38	11	20	24	8	16	32	13	23	35	13	24	27	10	19
Hean her	cht Feet	91	65	78	81	€0	78	93	66	79	100	78	85	50	67	_3

GENERAL METEOROLOGY SUMMARY:

PARAHETEP	YE	ARL'	Υ _	Ji	AN-M	AR	AF	R-J	!H	Jι	L-Si	ĒΡ	·)(. T - D!	EC
	day	nit	d&n	day	กาเ	din	day	nit	d&n	day	nit	den	day	nit	d: 5
% occur EL&SB dc&s			2			5			2			1			1
% occur 2+ EL dcts			10	ł		14	l		18	l		5			11
AVG station h			377			368			378	ŀ		385	1		376
AVG station -N/Kft			19			18			19	ĺ		28			18
AVG sfc wind Kts	12	12	12	14	13	14	12	11	: 1	10	10	_10	:4	13	13

Specified location: 19 09 N 96 07 W (*) INDICATES INSUFFICIENT DATA Radiosonde source: 76692 19 09 N 96 07 W

Radiosonde station height: 43 Feet

Surface obs source: MS46 15 00 N 95 00 H

PERCENT OCCURPENCE OF ENHANCED SURFACE-TO-SURFACE PADAR ESM COM PANGES

PENTENT	DECORPENCE .	UF <u>E</u> I	HHM	FD.	POKE	HLE-	<u>10-51</u>	ikeni	E N	HUHK	557	r cu	PHHI	<u>.:5:</u>		
FREC	DUENCY	YE	EARL'	Y	J(AN-M	R .	91	PR-JI	JN	5	JL-SI	EP	Ö	ומ-דכ	EC
L		day	nit	d&n	day	nit	dŁn	day	nit	d&n	day	nit	den	day	nit	dŁn
100	HHz	4	2	3	3	1	2	6	3	4	3	2	3	2	1	
1	GH=	51	22	36	56	19	37	51	24	38	41	22	32	54	23	38
3	GH ₂	59	29	44	65	25	45	60	31	46	_50	38	49	63	_38	46
6	GHz	79	58	69	82	53	68	80	61	78	75	60	67	89	58	67
18	GHz	91	81	86	92	77	84	92	82	87	91	84	88	98	81	86
20	GHz	96	98	93	95	87	91	96	91	94	96	93	95	95	98	92

SURFACE BASED DUCT SUMMARY:

PARAMETER	YI	ARL'	r	J	AN-HI	P.R	A	PR-JI	JH	JI	JL-SI	P	00	T-DE	EC
	day	nıt	d&n	day	nit	d&n	day	nit	d&n	day	nit	dŧn	day	nit	dan
Percent occurrence	23	11	17	18	4	11	35	17	26	22	17	20	17	6	12
AVG thickness Kft	1		.36	i		.35			.37	ļ		. 35			.37
AVG trap freq GHz	•		.62	l		.43			.56			.75			.73
AVG lyr grd -H/Kfs	L		87	١.		82	1		89			79			107

ELEVATED DUCT SUMMARY:

PARAMETER	Y	ARL	Y	Ji	111-M	AR	AF	R-JI	JH	Jt	JL-SI	ΕP	00	T-DE	EC
	day	nit	dan	day	การ	dŁn	day	การ	dŁn	day	nıt	dån	day	nit	dan
Percent occurrence	28	42	35	32	65	49	31	42	37	23	24	24	27	37	32
AVG top ht Kft			5.0	f		6.1	ĺ		5.0	ĺ		2.9	[5.9
AVG thickness Kft			. 54			.63	l		.54			.49			.52
AVG trap freq GHz			.29			.20			.28			.38			.29
AVG lyr grd -N/Kft	i		59	l		61			57			55			62
AUG for base Kft			4.6			5.7			4.6			2.5			5.6

EVAPORATION DUCT MISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRE	CE Y	EARL	Y	J	At:-H	RR	- Al	R-JI	JH.	JI	JL-SI	EP	00	T-DE	EC
	day	rit	den	day	nit	d£n	day	nit	dan	day	กระ	d⊊n	day	nit	d&n
8 to 10 Fee	2	2	2	3	3	3	2	2	2	1	1	1	4	3	3
10 to 20 F∈e	3	9	6	3	10	7	4	9	7	4	8	6	3	8	5
28 to 30 Fee	6	10	8	5	11	8	7	11	ġ	6	10	ક	5	9	7
30 to 40 F€e	5	11	8	5	3.1	8	7	10	9	ψ	11	10	5	18	7
40 to 50 Fee	9	15	:2	6	13	10	10	15	12	12	17	15	7	14	11
50 to 60 Fee	10	_ 15	13	8	14	11	12	16	14	13	17	15	8	14	11
60 to 70 Fee	8	10	9	7	10	8	8	11	19	10	10	10	6	- 9	3
78 to 80 Fee	6	6	6	5	6	6	6	7	6	6	€	6	5	6	5
88 to 98 Fee	_ 4	_ 4	4	5	4	4	4	3	ę.	4	4	4	5	4	4
90 to 100 Fee	3	2	3	4	2	3	3	2	2	3	2	2	4	2	3
above 100 Fee	42	16	29	49	17	33	37	15	26	33	14	23	49	28	35
Kean height Fe-	: 1105	67	86	116	66	91	99	64	82	93	64	79	114	72	93

GENERAL RETEOPOLOGY SURNARY:

PARAMETER	YEARLY	JAH-HAR	APR-JUN	JUL-SEP	OCT-DEC
	dau nit din	day nit dan	day nit den	day nit dan	day nit din
% occur EL&SP dcts	4	3	6	3	4
% occur 24 EL dets	5	4	7	3	5
AVG station N	374	363	380	383	369
AVG station -H/Kft	19	18	21	21	18
ALG SEC LING KES	9.2 7.8 8.5	9.5 7.8 8.6	8.2 7.1 7.7	9.2 8.0 8.6	10 8.5 9.1

15 00 N 105 00 H (*) INDICATES INSUFFICIENT DATA Specified location:

18 43 H 110 57 H Radiosonde source : 76723

125 Feet Radiosonde station height: Surface obs source: MS47 15 00 H 105 00 H

PERCENT OCCUPRENCE OF ENHANCED SUPPACE-TO-SUPPACE PARAP ESH COM RANCES:

FRE	QUENCY	_ YI	ARL'	Υ	J	AM-MI	AR	AF.	-R-JI	אנ	JI	JL-SI	P	01	CT-DE	EC
		day	nit	d&n	day	nit	din	day	nit	d&n	day	nıt	dan	day	nit	<u>d</u> \$n
100	MHZ	12	. 6	6	14	0	7	9	0	5	11	0	6	13	9	- 3
1	GHz	69	10	40	74	9	41	64	9	37	68	11	39	72	11	42
3	GHz	31	15	48	35	13	49	77	13	45	80	17	48	83	15	49
6	GHz	93	51	72	95	49	72	91	51	71	92	54	73	93	52	72
10	GHz	97	82	98	98	81	89	97	82	89	97	83	98	97	81	83
26	GHz	99	91	95	99	91	95	99	91	95	99	92	96	99	98	93

SUPFACE BASED DUCT SUMMARY:

PARAMETER	YERRLY	~	J	AH-MA	1R	A	PR-J(111	J!	JL-S	P.	0:	T-DI	EC
	day nit	d&n	day	nit	dŁn	day	nit.	dŁn	day	nit	dan	day	nıt	dŁn
Percent occurrence	80 0	40	86	0	43	75	0	38	76	0	38	82	8	41
AVG thickness Kft		.22	ĺ		. 24	Į .		.21			.17	İ		.24
AVG trap freq GHz		.74	i		.58	i		1.1			.68			.€2
AVG lun grd -N/Kft		150			163	1		131	ĺ		177			128

PARAMETER	Y	EARL'	r	31	H-H	AR	i A	PR-JI	JH	31	UL-SE	P	0	CT-DE	EC
	day	nit	<u>d</u> &n	day	nit	d&n	day	nit	den	day	110	d&n	Jay	nit	din
Percent occurrence	41	- 0	20	49	- Ø	25	30	9	15	39	- 0	26	45	- 8	Z 3
AVG top ht Kft	ŀ		3.9			3.7	l		3.5			4.2	1		4.3
AVG_thickness Kit			.54			.43			.51			.55	l		. 66
AVG trap freq GHz	Г		.57			.37			1.4			.29			.18
AVG lyr grd -H/Kft	1		63	1		61	ŀ		71			57	i .		54
AVG for base kft	1		3.6	l		3.4	ł		3.2	•		3.7	i		3.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCC	URRENCE	Y	ARL	′	J	RH-M	R.	Ri	PR-JI	JN	3	UL-Si	P	0	T-DE	:C -
		day	nit	d‡n	day	nit	d&n	day	nit	d&n	day	nit	din	day	nit	din.
8 to 18	Feet	2	2	2	2	2	2	3	2	2	2	1	- 2	2	2	2
18 to 28	Feet	2	7	5	2	8	5	2	7	5	2	€	4	3	8	5
20 to 30	Fest	5	9	7	6	10	8	5	9	. ?	5	9	7	6	9	s
38 to 48	Feet	6	12	9	5	13	9	6	13	9	6	11	9	Ġ	12	9
48 to 58	Feet	3	18	13	8	18	13	8	18	13	9	18	13	8	:8	13
58 to 68	Feet	19	19	15	18	19	15	18	28	15	11	19	_15	9	19	14
68 to 78	Feet	9	11	10	9	11	10	9	11	10	,0	12	10	9	11	19
78 to 80	Feet	6	6	6	7	6	6	7	6	6	6	7	7	6	6	- 5
80 to 90	Feet	4	3	4	4	3	4	- 5	3	4	4	4	_ 4	4	3	3
90 to 108	Feet	3	2	2	3	2	2	3	1	2	3	2	3	2	2	2
above 100	Feet	43	18	27	43	9	26	43	9	26	42	11	26	45	11	23
Hean height	Feet	109	59	84	103	57	83	109	58	84	107	€1	_84	111	60	કંઠ

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEA+LY	JAN-MAR	APR-JUH	JUL-SEP	OCT-DEC
	day nit dan	day rit dan	day nit dan	day nit dan	day nit din
% occur EL&SB dcts	30	43	15	26	37
% occur 2+ EL dcts	5	2	3	5	7
AVG station H	366	356	361	381	365
AVG station -N/Kft	28	19	20	21	18
AVG SEC WIND KES	8.5 8.5 8.5	8.4 8.2 8.3	8.7 8.7 8.7	9.2 9.2 9.2	7.8 7.9 7.8

(*) INDICATES INSUFFICIENT DATA Specified location: 18 43 N 110 57 H Radiosonde source : 76723 18 43 N 110 57 H

Radiosonde station height: 125 Feet

Surface obs source: MS48 15 80 N 115 00 W

FREQUENCY	Y	EARL	Y	J	AN-M	3R	AF	R-JI	<u>ın</u>	3	UL-SI	Er	0	CT-D	EC
	day	nit	d&n	day	nit	d&n	day	n <u>i t</u>	d&n	day	nit	d&n	day	nit	d&n
100 MHz	12	- 0	6	14	8	?	9	0	5	11		- 6	13	9	. 6
1 GHz	62	5	33	66	5	35	54	3	29	63	6	35	63	6	34
3 GHz	77	_9	43	82	9	45	70	7	39	77	9	43	79	11	45
6 GHz	93	55	74	96	60	78	92	56	74	91	47	69	94	55	75
10 GHz	98	89	93	99	91	95	98	91	94	97	85	91	98	88	93
28 GHz	99	95	97	188	96	98	99	97	98	99	92	95	99	95	97

	OUN	HKI;													
PAPAMETER	Y	EARL	1	J	AH-HI	RR	Al	PR-JI	JN	JU	JL-SI	₽	00	CT-Di	EC
	day	nıt	d&r	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	กาเ	<u>020</u>
Percent occurrence	89	6	40	86	. 0	43	75	. 0	38	76	8	38	82	0	41
AVG thickness Kft			.22	ł		.24			.21	l		.17			. 24
AVG trap freq GHz			.74			.58			1.1	i		.68			.62
AVG lyr grd -N/Kft	L		158	<u>L</u>		163	L		131	L		177			128

FIEVATED DUCT SUMMARY:

PARAMETER	Y	EARL	Y	J	RH-MA	1R	A)	PR-JI	אט	J;	JL -51	ΕP	00	CT-DI	EC
	day	nıt	d&n	day	nıt	d&n	day	nit	d&n	day	nıt	děn	day	nit	dan
Percent occurrence	41	9	28	49	9	25	30	- 8	15	39	3	20	45	- 0	23
AVG top ht Kft			3.9			3.7	l		3.5			4.2			4.3
AVG thickness Kft	l		. 54			. 43	l		.51			. 55			.€6
AVG trap freq GHz			.57			.37			1.4			.29			.18
AYG lyr grd -H/Kft	•		63			61	<u>!</u>		71			57			64
RVG tyr base Kft	l		3.6			3.4	i		3.2	i		3.7	i		3.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE.

PERCENT OCC	URRENCE	YE	ARLI	1	J	ลห-หเ	ar.	Ri	R-J	JN	30	JL-SE	P	00	T-DE	C
		day	ni t	d&n	day	nit	dŁn	day	nit	d&n	day	nıt	din	day	nit	dan
0 to 18	Feet	2	1	2	2	1	1	2	1	1	3	2	2	Ž	1	2
10 to 20	Feet	2	3	2	1	2	2	1	2	2	2	6	4	2	3	2
20 to 30	Feet	3	_6	5	_ 3	5	_ 4	_ 3	6	5	4	9	6	3	7	5
30 to 40	Feet	5	12	9	5	10	7	5	11	8	6	15	11	6	12	9
40 to 50	Feet	10	22	16	19	21	15	10	23	17	10	22	16	10	21	15
50 to 60	Feet	14	23	19	15	25	20	15	25	28	13	_20	16	14	23	18
60 to 70	Feet	14	15	14	16	17	16	15	16	15	10	11	11	14	14	14
70 to 80	Feet	11	8	10	12	9	11	12	9	10	8	7	8	12	S	13
88 to 98	Feet	6	3	5	6	3	5	6	3	4	6	2	4	7	4	6
90 to 168	Feet	4	1	2	4	i	3	4	1		3	1	2	3	2	Ž
above 130	Feet	28	5	17	26	5	15	28	3	16	34	6	20	25	6	16
Hean heigh	t Feet	90	<u>5</u> 6	73	8^	58	73	98	54	_72	97	54	76	87	57	72

GENERAL METEOROLOGY SUNKARY:

PARAMETEP	YE	HRL'	٦	Ji	an-H	BR	Ai	PR-JI	UN	71	JL -SI	EP	00	CT-D	EC
	day	<u>n., , </u>	den	day	nıt	d&n	day	nit	d&n	day	nit	d&n	day	nit	dt s
% occur EL&SB dcts			38			43)		15	1		26			37
% occur 2+ EL dcts			5			2	l		3			6			7
AVG station H			366			356	ŀ		361	1		381	l		365
AVS station -N/Kft			20			19	i		20			2:	Ì		:8
AVG afc wind Yts	12	11	12	13	12	13	12	11	11	12	11	11	13	12	12

(*) INDICATES INSUFFICIENT DATA

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Specified location:

AVG lyr grd -N/Kft

15 00 H 125 00 H 23 18 43 N 110 57 H

15 00 H

150

18 43 N 110 57 W : 125 Feet

DEPOSIT OCCUPATION OF SUBJECT CURRENT CURRENT DEPOSIT PORTOR FOR COM DOUGS

PERCENT OCCUPRENCE	OF EI	<u>HAHI</u>	ED :	SUPF	RCE-	ro-si	<u>URFA(</u>	E PF	ABAP	ESH	COM	RAN	GES:		
FREGUENCY	YI	ERRLY	7	Ji	AH-M	R.	AF	R-JU	JN	Jŧ	JL-SI	EP	0	57 - DE	C
	day	nit	d&n	day	n <u>it</u>	dan	day	nit	d&n	day	nit	d&r	day	nit	d∿n
100 MHz	12	0	6	14	Ø	7	9	0	5:	11	0		13	- 6	- 6
1 GHz	59	4	32	64	3	34	52	4	28	60	5	33	61	3	32
3 GHz	76	8	42	81	8	44	69	_ 8	_38	75	_8	42	78	8	43
5 GHz	93	56	74	95	59	77	91	69	76	90	48	69	94	58	76
18 GH≥	98	90	94	99	92	95	98	91	95	97	85	91	98	98	94
20 GHz	99	96	98	99	98	99	99	96	_98	99	94	96	99	96	97

SURFACE BASED DUCT SUMMARY: PARAMETER YEARLY JAN-MAR APR-JUH JUL-SEP OCT-DEC day nit din day nit dan day nit den day nit den day nit dan Percent occurrence 0 40 86 ø 43 75 ō 33 ō 39 9 41 .22 .17 .24 AVG thickness Kft . 24 .21 .74 .62 .68 AVG trap freq GHz . 58 1.1

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PARAMETER	YI	EARL'	۲	J	AH-H	AR	A1	PR-J	JN	Jt	リレーミ	EP	0	CT-D	EC.
	day	nit	dån	day	กาเ	d&n	day	nıt	d&n	day	nıt	d&n	day	กาเ	dtn
Percent occurrence	41	9	28	49	0	25	30	0	15	39	9	26	45	0	-3
AVG top ht Kft			3.9	l		3.7	i		3.5	l		4.2	ŀ		4.3
AVG thickness kft	L		. 54			. 43	J		.51	!		. 55			.66
AVG trap freq GHz			.57			.37	i		1.4			.29			.18
AVG lyr grd -H/Kft	i		63	ļ		61			71	1		57	l		64
AVG lyr base Kft	[3.6	Į		3.4	1		3.2	[3.7	ĺ		3.9

には必要したのでは、100mのでは、100mのでは、100mのでは、100mのでは、100mのでは、100mのでは、100mのでは、100mのでは、100mのでは、100mのでは、100mのでは、100mのでは、100mの

PERCENT	OCC	JRREHCE	YE	ARL	Ϋ́	JE	H-H	R	AI	PR-JI	JH.	Ji	JL-58	Р	01	T-DE	EC
			day	nit	d&n	day	nit	dån	day	nit	d&n	day	nit	dtn	day	nit	d&n
8 to	19	Feet	2	1	2	2	1	1	2	1	2	3	2	2	2	2	
18 to	20	Feet	2	3	2	i	2	2	2	2	2	2	5	3	2	2	3
20 to	39	Feet	4	6	5	3	6	5	3	5	4	_ 4	9	7	3	6	5
30 to	48	Feet	ď	12	9	5	11	8	5	11	8	8	15	11	6	11	- 9
40 to	58	Feet	11	21	16	18	21	16	10	21	15	12	22	17	10	20	15
50_to	68	Feet	15	_24	19	16	26	21	16	27	21	13	22	18	14	22	18
60 to	70	Feet	14	16	15	15	17	16	16	17	16	11	12	12	15	18	16
70 to	88	Feet	11	8	10	12	9	18	12	8	16	9	6	7	13	11	; 2
88 to	98	Feet	7	3	5	8	3	6	6	3	5	€	2	4	8	4	€
90 to	189	Fett	4	1	3	4	1	3	4	1	3	3	1	2	4	2	3
above	100	Feet	24	4	14	22	3	13	24	4	14	29	5	17	22	3	12
Hean h	aiah•	Eca.	25	55	70	83	55	60	25	= 5	71	-00	80	70	0.0	55	

GENERAL METEOROLOGY SUMMARY: PARAMETER YEARLY JAN-MAR APR-JUN JUL-SEP OCT-DEC day nit dan day nit dan day nit dan dav nit dån day nit don % occur EL&SB dcts 30 43 15 26 37 % occur 2+ EL dcts 5 2 7 3 AVG station N 3£5 366 356 361 381 AVG station -N/Kft 20 19 20 21 18 AVG sfc wind Kts 14 13 14 15 15 15 13 13 12 12 15 15 15 Specified location:

FREQUENCY

1 GHz

3 GHz

6 GHz

10 GHz

20 GHz

PARAMETER

Percent occurrence

AVG thickness Kft

AVG trap freq GHz

PARAMETER

Percent occurrence

AVG thickness Ift

AVG trap freq GHz

AVG lur base Kft

0 to 10

10 to 20

28 to 38

30 to 19

40 10 55

50 1 - 69

76 to 38

85 10 90

30 to 100 Feet

above 100 Feet

Hean height Feet

CENERAL METEORO OF

PARAMETER

% occur ELSSB dcts

% occur 2+ EL dcts

AYG station -N/Kft

AVG ofc wind I'ts

AVG station N

AVG lyr grd -N/Kft

PERCENT OCCURRENCE!

Feet

Feet

Feet

Feet

Feet

Feet

Fest

Feet

Feet

AVG top ht Kft

AVS 1un and -H/Kft ELEVATED DUCT SUMMARY:

SURFACE BASED DUCT SUMMAPY:

100 HHz

9€

15 89 N 135 89 W 30 00 N 140 00 N

Radiosonde source : 4YN Surface obs source: MS50

Radiosonde station height:

YEARLY

day nit d&n

YEARI Y

YERRLY

EVAPORATION DUCT HISTOGRAM IN PEPCENT OCCUPRENCE:

- <

SUMMARY:

YEARLY

YEARLY

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39 Feet 15 00 N 135 00 H

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAP ESM COM RANGES:

TAN-MAR

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OCT-DEC

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HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

(*) INDICATES INSUFFICIENT DATA Specified location: 15 00 N 145 00 H Radiosonde source : 91285 19 43 N 155 84 W Radiosonde station height: 36 Feet

Surface obs source: Meril 15 00 N 145 00 H

PERCENT (DCCURRENCE		'RAC	CED S	SUPF	ACE-1	ro-si	JRFA	E RI	ADAR -	ESM	сон	RAN	SES:		
FRE	ZUENCY	1	₹L'	Y	31	ลห-พ	R.	Al	R-J	JH	J	JL-S	EΡ	00	CT-DE	EC
L		da,	•	d&n	day	rit	d&n	day	nit	₫&n	day	nit	den	day	nit	d&n
100	MHz	5	4	3	4	9	2	4	1	2	6	1	4	5	е	2
1	GHz	40	7	24	3?	6	22	48	6	23	47	10	29	38	6	ž2]
3	GHz	54	14	34	59	12	31	53	12	33	68	18	39	52	14	33 (
6	GHz	82	61	72	79	57	68	85	65	75	82	59	71	83	63	73
10	GHz	94	90	92	93	89	91	95	91	93	94	89	92	94	92	∋ 3
20	GHZ	97	97	97	96	96	96	97	98	97	97	96	96	97	97	97

SOMERCE BUSED DOCT	SUMMHRY:													
PARAMETER	YEARLY	,	J	AH-M	3F	Al	R-JI	UH	J	UL-SI	Ρ	00	T-D	EC
	day nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	den	day	nıt	dln
Percent occurrence	33 4	18	31	3	17	29	4	17	46	- 6	23	30	3	17
AVG thickness Kft	İ	.36			.31			.38	İ		.41	Ì		. 35
AVG trap freq GHz		.73	ł		.91			.75			.60	l		.€?
AYG lyr grd -N/Kft		75			78			91			71	Ĺ		<u>6</u> 8

ELEVATED DUCT SUMMAI	RY:									_					
PARAMETER	Y	ARL'	~	J	AH-M	3Ř	Ai	PR-JI	JH	7	UL-SI	EΡ	00	T-DI	EC
	day	nit	d&n	day	nıt	d&n	day	nit	d&n	day	nit	d&n	day	nit	dặn
Percent occurrence	43	63	53	35	55	45	47	66	57	59	73	62	48	58	49
AVG top ht Kft	l		7.3	i		7.1	l		7.3	İ		7.3	l		7.4
AVG thickness Kft			.56	[.55	İ		. 55			.61	ĺ		.52
AVG trap freq GHz		_	.22			.22			.23			.19			.52
AVG lyr grd -H/Kft			66	1		68	ĺ		64			65			65
AVG lyr base Kft			6.9	Ĺ		6.8	Ĺ		7.0			6.8	L		7.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT	OCCURR	ENCE	YE	ARL	7	3	AH-M	R.	A	PR-JI	JH	3	UL-SI	EP	O	CT-DE	EC
			day	nıt	d&n	day	nıt	dtn	day	nit	din	day	nıt	<u>d</u> &n	day	ការ	din
0 to	10 Fe	Pt	3	1	2	3	2	2	2	ì	1	3	2	2	3	2	
10 to :	20 Fe	2 1	2	2	2	2	2	2	2	2	2	2	3	3	2	2	2
20 to :	<u>30 Fe</u> e	<u>: </u>	4	. 7	5	4	7	6	3	6	5	4	7	_ 6	4	5	4
30 to	40 Fe	P E	-6	12	ė	7	13	10	5	16	7	8	13	10	6	12	9
40 to 1	50 Fee	2 t	10	19	14	11	28	16	9	18	13	10	20	15	9	18	14
50 to	<u>60 Fe</u>	22_	13	22	17	14	21	17	12	_25	18	12	20	16	13	22	_18
60 10	70 Fee	?1	13	16	14	13	15	14	15	19	17	10	12	11	13	17	15
70 to 3	80 Fe	:	11	11	11	10	10	10	13	11	12	و	10	19	13	11	1.2
80 to	90 Fee	22	7	4	6	6	3	5	7	3	5	7	4	- 6	8	5	6
98 to	108 Fee	1		2	3	4	2	3	5	2	3	4	2	3	4	3	3
above	190 Fee	22	27	5	16	25	5	15	28	4	16	30	7	18	25	5	15
Hean he	ight Fe	et	_86_	57	72	83	56	78	89	_57	_ 73	89	57	73	83	58	70

CENERAL HETEOPOLOGY SUMMARY:

PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dkn	day nit dan	day nit din	das nit dan	day nit dan
% occur ELESB dcts	8	4	8	13	7
% occur 2+ EL dcts	8	6	9	11	7
AVG station N	361	355	361	365	3€1
AVG station -N/Kft	16	15	16	16	10
AVG sfc wind Fis	16 15 16	16 15 16	17 16 16	15 14 14	17 16 16

CONTROL WINDOWS CONTROL TO CONTRO

Radiosonde source : 91285 19 43 N 155 04 H 36 Feet

Radiosonde station height:

Surface obs source: MS52 15 00 N 155 00 H

DEDICAT OCCUPRENCE OF ENGANCED SUBSOCITO-SUBSOCE DADAR SON COM DOUCES.

PERCEN! OLCORP	EUCE OF ENHAN	FED SOR	PHLE-	1 U = 3	<i>)</i>	<u>, c. fr</u>	אחעי	E 211	CON	KUUI	553.		
FREQUENCY	YERRL	Y	JAN-M	1R	AS	R-JL	M	5	JL-SI	EΡ	0	CT-DI	EC
	day nit	d&n da	y nit	d&n	day	nit	d&n	day	การ	d&n	day	nit	d&n
100 HHz	5 1	3	4 8	2	4	1	2	6	1	4	5	9	2
1 GHz	41 8	25 3	77	22	41	8	24	48	11	30	37	7	22
3 GHz	55 16	36 5	0 15	32	57	15	36	61	28	40	51	16	34
6 GHz	84 65	74 8	1 60	78	85	58	76	86	65	76	83	67	75
10 GHz	95 92	94 9	5 90	92	95	94	95	96	92	94	95	93	94
20 GHz	98 97	97 9	8 96	97	97	99	98	98	96	97	98	98	98

Y	EUST,	Ý	J	AN-M	AR	AI	PR-JI	JH.	- 31	JL-SI	EP	00	CT-DE	EC
day	nit	d&n	day	nit	dţn	day	nıt	dan	day	nit	d&n	đay	nit	dtn
33	4	18	31	3	17	29	4	17	40	6	23	30	3	17
1		.36	l		.31	l		.38			.41			. 35
		.73			.91	l		.75			.60			.67
		75			70	l		91			71			68
	day 33	day nit 33 4	YEARLY day nit d&n 33 4 18 .36 .73	YEARLY JI day nit dan day 33 4 18 31 .36 .73	YEARLY JAN-M day nit dan day nit 33 4 18 31 3 .36 .73	YEARLY JAN-MAR day not dan day not dan 33 4 18 31 3 17 .36 .31 .73 .91	YEARLY JAN-MAR AI day nit din day nit din day 33 4 18 31 3 17 29 .36 .31 .73 .91	YEARLY JAN-MAR APR-JI day nit dan day nit dan day nit 33 4 18 31 3 17 29 4 .36 .31 .73 .91	YEARLY JAN-MAR APR-JUN day not dan day not dan day not dan 33 4 18 31 3 17 29 4 17 .36 .31 .38 .73 .91 .75	YEARLY JAN-MAR APR-JUN JUN day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit	YEARLY JAN-MAR APR-JUN JUL-SI day nit dan day nit dan day nit dan day nit 33 4 18 31 3 17 29 4 17 40 6 .36 .31 .38 .73 .91 .75	YEARLY JAN-MAR APR-JUN JUL-SEP day not dan day not dan day not dan day not dan 33 4 18 31 3 17 29 4 17 40 6 23 .36 .31 .38 .41 .73 .91 .75 .60	YEARLY JAN-MAR APR-JUN JUL-SEP 00 33 4 18 31 3 17 29 4 17 40 6 23 30 .36 .31 .38 .41 .73 .91 .75 .60	YEARLY JAN-HAR APR-JUN JUL-SEP OCT-DI day not dan day not day

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	J	BH-M	AR	AF	R-J	UH	31	JL-SI	EΡ	00	II-DI	EC_
	day	nıt	d&n	day	n1*	d&n	day	nıt	dan	day	nit	d&n	day	nit	dŧn
Percent occurrence	43	63	53	35	55	45	47	€6	57	50	73	62	48	58	49
AVG top ht Kft	1		7.3			7.1			7.3	l		7.3			7.4
AVG thickness Kft	l		. 56			. 55	!		. 55	1		.61			.52
AVG trap freq GHz			. 22			.22			.23			.19			.25
AVG lyr grd -N/Kft	1		66			68	l		64	i		65			65
AVG lur base Ift	l		6.9			6.8	!		7.0	l		6.8	i		7.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PERCENT	OCC	URREHCE	Y	EARL'	Y	J	AN-M	AR	A!	PR-J	UN	34	JL-SI	P	0	CT-DE	EC
			day	rit	d&n	day	nit	d&n	day	nit	den	dao	nit	den	dav	nit	dan
Ø to	10	Feet	2	1	1	1	1	1	2	1	1	2	1	2	1	1	1
18 to	20	Feet	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2
20 to	30	Feet	3	5	4	4	- 6	5	3	5	4	3	5	4	3	5	4
30 to	40	Feet	6	10	8	8	11	10	5	9	7	6	9	7	6	11	8
48 10	50	Feet	10	18	14	11	19	:5	, a	18	13	9	19	14	11	16	13
58 tc	60	Feet	13	22	18	13	20	17	11	25	18	14	_22	18	15	22	12
60 10	70	Feet	13	17	15	14	1€	15	12	19	15	12	16	14	14	17	16
70 to	80	Feet	12	11	11	12	11	11	12	11	11	11	9	10	12	12	12
80 to	90	Feet	7	5	6	6	5	5	9	5	7	6	5	6	8	6	7
99 to	100	Feet	5	2	4	4	2	3	6	2	4	4	3	3	5	3	4
above	100	Feet	27	6	17	25	6	16	29	6	18	31	8	28	23	5	14
Hear he	1 gh	t Feet	88	_ 60	74	85	59	72	91	60	76	92	€2	77	64	69	72

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YE	ARL'	Ý	J	411-H	AR	A F	R~JI	JH	J	JL-S	EΡ	0:	T-DI	C
	day	nit	dŧn	day	nit	d&n	day	nıt	den	day	711	dtn	day	778	đ‡∽
% occur EL&SB dcts			ક			4			8			13			— :
% occur 2+ EL dcts			8	l		6	l		9			11	l		?
AVG station N			361	l		355			361			365	l		361
AVG station -N/Kft			16	l		15			16			16	l		16
AVG sfc wind Kts	15	15	15	15	15	15	16	16	15	14	! 4	14	16	15	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMER!

Specified location: 16 43 N 169 31 N (*) INDICATES INSUFFICIENT DATA Radiosonde source: 91275 16 43 N 169 31 N

Radiosonde source: 91275 16 43 N 169 31 N Radiosonde station height: 10 Feet Surface obs source: MS53 15 00 N 165 00 N

PE	PCENT	OCCUPPENCE	OF E	инан	CED :	SURF	ACE-	<u> 10-51</u>	URFA	CE RI	ADAP	ESM.	<u> "COM</u>	BUH	SES:		_
	FRE	OUENCY	Y	ERRL'	Y	J	AN-M	AR	Al	PR-JI	אט	JI	UL-\$	EP	0,	ST-DE	ĒČ
L			day	nit	<u>_d&n</u>	day	nit	den	day	nit	dŧn	day	nıt	₫&n	day	n11	dan
Г	100	HHz	4	0	2	5	- 0	3	3	1	_ 2	4	0		4	- 0	~
1	1	GHz	41	11	26	43	12	27	41	11	26	43	11	27	38	10	24
	3	GHz	54	28	_37	56	20	38	53	28	37	55	29	_37	53	21	37
Г	- 6	GH2	84	71	77	84	69	77	83	72	78	84	73	78	83	68	75
ĺ	19	GHz	96	94	95	96	94	95	95	95	95	96	94	95	96	93	94
1	28	GHz	1 98	97	97	98	98	98	97	97	97	98	97	97	98	97	97

SURFACE BASED DUCT SUHHAPY:

PARAMETER	Y	BRL'	Υ	J	AN-M	R.	Ai	R-JI	ИL	J	JL-\$1	P	0	T-D	EC
	day	nı t	dŧn	day	nit	d&n	day	nıt	d&n	dav	nit	dan	dav	nit	don
Percent occurrence	25	3	14	30	2	16	20	4	12	25	2	14	25	- 2	14
AVG thickness Kft	Į.		.39			.38	ĺ		.40			. 40	[.37
AVG trap freq GHz			53	ļ		.49	1		.50			.50			.62
AVG lyn grd -N/Kft	l		193			102	J		106			91	L		113

ELEVATED DUCT SUMMARY:

PARAMETER	YI	EARL'	7	31	คีน-เม	ar i	PI	-R-JI	H	5	11-5	EP	o	CT-DI	EC
	day	nıt	d&n	day	nit	<u>d&n</u>	day	nit	d&n	day	nit	dan	day	nıt	din
Percent occurrence	42	61	52	45	62	54	47	68	58	38	€1	50	37	54	- 5
AVG top ht Kft			7.1			6.6	l		7.2			7.5	1		6.3
AVG thickness Kft	Ĺ		. 47			.47			.47	L .		. 45	L		. 48
AVG trap freq GHz			.32			.36			.38			.35			9
RYG lyr grd -N/Kft			63			63	l		59			60	1		€8
AVG lyr base Kft			6.7			6.3			6.8			7.2			6.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PERCENT OCCUPRE		EARL'			RH-MI			R-JI	in	1,	JL-5	P	60	T-DE	
TERCENT OCCUPRE											_			_	
		nit	Oan	Jay	nit	GEN	day	nit.	<u>arn</u>	Oa"	nit	CEN	dau	nit	Oth
0 to 10 Fee	:) 2	1	1	1	1	1	2	1	2	2	1	1	1	1	1
10 to 20 Fee	: 1	2	2	j 2	2	2	2	2	2	1	2	1	1	3	2
20 to 30 Fee	. 3	3	3	3	4	4	2	3	3	2	3	3]3	3	_ 3
30 to 40 Fee	. 5	7	6	6	8	7	5	6	- 6	5	7	- 6	6	8	7
40 to 50 Fee	10	17	13	11	17	14	Э	17	13	11	15	13	111	:8	14
50 to 60 Fee	14	22	_18	_ 13	21	17	14	23	18	13	23	18	15	21	18
60 to 70 Fee	13	18	15	13	17	15	14	18	16	14	19	17	12	16	14
70 to 38 Fee	. 10	12	11	11	12	11	9	12	18	19	12	11	10	11	11
90 to 90 Fee	. 7	- 6	- 6	7	5	- 6	- 6	- 6	6	7	5	_ 5	_ 8	6	_ 7
98 to 100 Fee	5	3	4	5	3	4	5	3	4	4	3	- 4	5	4	<u>-</u>
above 100 Fee	30	18	20	28	10	19	32	9	20	32	16	21	27	9	18
Kean height Fed	1 92	_66	_79	91	<u>6</u> 7	79	94	-66	89	94	67	_ 81	_89	64	1 6

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY	7	JA	IN-MA	ìR	AF	R-Ji	iH.	Jt	JĽ-58	P	00	T-DI	EC
	day nit	d&n	day	nit	d&n	day	nit	dani	day	nit	d&n	day	nit	den
% occur EL&SB dcts		4			5			5			3			3
% occur 2+ EL dcis		13	l		13			14			13			12
AVG station H		378	1		365			369			375			372
AVG station -N/Kft		18	l		18			18			19			18
RVG sfc wind Kts	15 14	15	15	15	15	15	15	15	14	13	14	15	14	15

HISTORICAL PROPAGATION CONDITIONS SUMMAP IREPS REV 2.1

(*) INDICATES INSUFFICIENT DATA Specified location: 15 00 N 175 00 W Radiosonde source: 91275 16 43 N 169 31 W

Radiosonde station height: 10 Feet

Surface obs source: MS54 15 00 N 175 00 W

PEDCENT OCCUPRENCE OF ENHANCED SUPFALE-TO-SUPFACE PARAP ESM COM DANCES.

FREQU	EHCY	YI	ERRL	Y	Ji	in-m	1R	Al	PR-JI	JN	Ji	JL-S!	ÉP	O i	CT-DE	EC
L		day	nıt	dtn	day	nst	d&n	day	nıt	dkn	day	nıt	d&n	day	nıt_	d&n
100 M	Hz	4	9	2	5	- 6	3	3	1	2	4	9	2	4	0	2
1 6	Hz	46	11	29	50	10	36	42	11	27	46	11	28	47	13	30
3 6	Hz	58	21	35	60	20	40	_ 53	19	36	56	21	38	62	•	43
6 G	Hz	85	73	79	85	67	76	85	75	88	85	74	79	86	- 7	82
18 G	Hz	96	93	94	95	91	93	95	95	95	96	91	94	96	34	95
20 5	Hz	67	97	97	97	96	96	97	98	98	97	97	97	98	96	97

CHECAGE BOOCH BUCK CHARGOV.

PARAMETER	YI	ARL'	Ÿ	J	AN-MI	AR.	RF	R-J	JH .	JI	JL-SE	P	01	CT-DI	EC
	day	nit	<u>ժ&ո</u>	day	nıt	dån	day	ពារ	dŁn	day	nıt	dån	day	nit	d&n
Percent occurrence	25	3	14	30		16	28	4	12	25	2	14	25	2	14
AVG thickness Kft	1		.39	İ		. 38			.40			. 48			.37
AYG trap freq GHz	ĺ		.53	1		. 49			.50			.50			,62
AVG lyr grd -H/Kft			103			102			106			91			113

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FLEVATED BUCT SUMMARY:

PARAMETER	Υ!	EARL	7	J1	AN-MA	1R	AI	R-JI	JN	7,5	JL -S!	ΕP	00	CT-DE	EC
	day	nit	d&n	day	กเร	den	day	ការ	d&n	day	nit	d&n	day	nıt	d&r
Percent occurrence	42	61	52	45	62	54	47	68	58	38	61	58	37	54	46
AVG top ht Kft			7.1	}		6.6			7.2	1		7.5	i		6.9
AVG thickness Kft			.47			. 47			.47	1		. 45	ļ		. 48
AVG trap freq GHz			.32			.36	1		.30			.35			.29
AVG lyr grd -N/Kft			63	[63	ĺ		59	I		60			68
AVG lyr base Kft			6.7	i		6.3	l		6.8			7.2	l		6.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCC	JRRENCE	YE	ARL	i	J	AH-M	ar .	Ai	-R-J	JH	J:	JL-Si	P	00	CT-DE	EC
			day	nit	d&n	day	กเเ	dan	day	nit	d&n	day	nıt	d&n	day	nit	dt n
8 to	16	Feet	2	1	2	2	1	1	2	1	1	2	2	2	2	1	
10 10	20	Feet	2	2	2	2	4	3	2	1	1	1	2	2	2	2	2
20 to	30	Feet	2	4	3	2	5	_4	3	3	3	2	_ 6	4	_ 3	2	3
30 to	40	Feet	7	7	6	4	9	7	4	5	4	5	7	6	5	- 6	5
40 to	50	Feet	9	13	11	11	15	13	9	16	13	9	11	10	8	11	10
58 10	€0	Feet	13	21	17	14	21	18	13	25	19	14	19	17	12	19	16
60 to	70	Feet	11	19	15	11	16	13	13	19	16	13	21	17	8	19	14
70 to	80	Feet	9	13	11	7	11	9	11	15	13	9	13	11	9	15	12
38 10	98_	Feet	7	6	6	_ 6	6	6	7	5	6	5	6	5	9	7	8
98 to	100	Feet	4	3	4	4	3	3	4	2	3	7	4	4	6	4	5
above	100	Feet	36	10	23	37	9	23	33	9	21	35	10	22	37	12	25
Mean he	1 ahi	: Feet	99	67	83	190	64	82	96	66	81	100	68	84	102	70	56

GENERAL METEOROLOGY SUNMARY:

PARAMETER	YEARLY			JAK-MAR			A	P-J	เห	3(11-5	ĔΡ	90	T-DI	EC
	day	nit	d&n	day	nit	d&n	day	nıt	d&n	day	nit	der.	dau	nıt	dtn
% occur EL&SB dcts			4			5			5			3	1		3
% occur 2+ EL dcts			13			13			14			13	ĺ		12
AVG station H			378	l		365			369			375	i		372
AVG station -N/Kft			18	l		18			18			19	1		18
AVG sfc wind rts	15	14	14	15	14	15	15	15	15	14	14	14	15	15	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 15 00 N 175 00 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 91376 7 04 N 171 22 E

Radiosonde station height: 10 Feet

Surface obs source: MSS5 15 00 N 175 00 E

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESH COM RANGES:

FREQUENCY	ΤŸ	YEARLY			JAN-MAR			APR-JUN			JL-SI	EP	OCT-DEC		
	day	nı t	d&n	day	nit	<u>d&</u> n	day	nit	d&n	day	nit	ವ ಹಿಣ	day	nit	dt n
100 MHz	9	2	5	9	1	5	8	2	5	9	1	5	8	2	5
1 GHz	61	15	38	64	13	38	57	12	35	62	15	38	63	19	41
3 GHz	73	26	59	75	22	49	69	24	46	72	22	47	77	37	_ 57
6 GH±	91	74	82	91	68	79	98	74	82	91	74	82	91	79	ò5
10 GHz	97	93	95	97	92	94	97	93	95	98	93	96	96	95	96
28 GHz	98	97	98	98	96	97	98	97	97	99	97	98	98	98	_ 98

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	YEARLY			JAN-MAR			APR-JUN			JL-SE	P	OCT-DEC		
	day	nıt	d&n	day	nıt	d&n	day	nıt	d&n	day	nıt	d&n	day	nıt	đãn
Percent occurrence	44	8	26	45	7	26	40	9	25	46	7	27	44	- 9	7.7
AVG thickness Kft			.34	l		. 33			.36			. 33	i		.33
AVG trap freq GHz			.40			.40			.38	1		.37	l		. 45
AVG lyr grd -N/Kft			88	<u> </u>		85			84			97			_ 86

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			AFR-JUN			J1	JL-SI	EP	OCT-DEC		
	day	การ	dkn	day	nit	<u>dŁn</u>	day	nit	d&n	day	nıt	dzn	day	nıt	dan
Percent occurrence	22	25	23	31	36	34	20	19	26	14	18	16	21	25	23
AYG top ht Kft	i		6.6			7.0	ŀ		6.2			5.8			7.5
AVG thickness Ift			.40	l .		.49	İ		. 35			. 40			.36
AVC trap freq GHz			.48			.33			.55			.48			,57
RVG lyr grd -N/Kft			59	l		59	l		59	!		58			59
AVG lyr base Kft	Ī		6.3	ı		6.6	ľ		5.9	İ		5.5	I		7.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCL	JRRENCE	YE	ARLI	7	Ji	H-MI	1R	A	R-J	JH	JI	JL-\$E	P	00	T-D5	: (
			day	nit	d&n	day	nit	<u>d&n</u>	day	nit	d&n	day	P11	d&n	day	nit	den
0 to	10	Feet	2	1	2	2	1	2	2	1	2	2	i	2	3	1	2
18 to	20	Feet	1	2	2	1	4	2	1	2	2	1	2	1	1	2	1
20 to	36	Feet	_ 2	4	3	3	5_	4	2	4	3	2	3	3	3	3	3
30 to	40	Feet	4		5	3	9	6	5	6	5	5	7	- 6	4	5	5
40 to	50	Feet	6	15	11	7	17	12	7	16	11	7	15	11	5	12	8
50 to	68 _	Feet	9	19	14	8	21	14	18	22	16	12	21	16	7	13	1.3
68 10	76	Feet	10	23	15	10	16	13	12	21	17	11	22	17	-6	19	_13_
76 to	88	Feet	9	12	11	8	12	19	19	12	11	9	11	10	ė	14	12
80 to	90	Feet	7	7	7	7	5	7	6	6	. '	5	5	5	9	11	18
90 to	100	Fest	5	4	5	5	3	4	6	4	5	5	2	3	7	7	7
above	166	Feet	43	10	27	46	8	27	39	6	22	42	10	26	47	14	30
Hean he	1 ght	Feet	109	65	88	113	62	87	104	64	84	108	€,	59	111	73	92

GENERAL METEOROLOCY SUMMARY:

PARAMETER	YEARL	JAN-HAR			AP	R-JL	JN	Ji	JL-SI	EP	OCT-DEC			
	day nit	d&n	day	nit	den	day	nit	dan	day	nit	dŁn	day	nit.	dtn
% occur EL&SB dcts		5			8			4			4			4
% occur 2+ EL dcts	j	4			8			2			2	j		วั
AVG station N		384	ľ		381	ĺ		38?			384			384
AVG station -H/Kft		19	i		19			20			19	i		19
AVG afe wind Kis	15 14	15	15	14	14	15	15	15	13	13	13	16	1€	16

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

(*) INDICATES INSUFFICIENT BATA 11 24 N 162 24 E Specified location: Radiosonde source : 91258 11 24 N 162 24 E

Radiosonde station height: 20 Feet Surface obs source: MS56 15 00 N 165 00 E

DEDCENT ACCURRENCE OF ENGAGED CHREACE_TO_CHREACE DATES COM.COM PONCES.

PERCENT OCCURRENCE	CH EANH	INCED.	POKE	41 E~	10-50	<u>JH THI</u>	. E 81	אאעו	£30	· COM	KM.4			
FREQUENCY	YERF	LY	JI	IN-M	īR	AI	R-JI	Ji4	JU	JL-SI	EP	0	T-DE	EC
	day ni	t d&n	day	nit	d&n	day	ni t	d&n	day	nit	d&n	day	ខារ	d&n
100 MHz	3	1 2	3	<u>i</u>	2	2	1	1	4	1	2	4	1	3
1 GHz	58 1	2 35	52	9	36	60	14	37	62	13	37	57	12	35
3 GHz	69 2	3 46	64	18	41	69	24	47	71	22	47	73	29	_51
6 GHz	89 7	3 81	88	68	78	88	73	80	89	69	79	92	82	87
10 GH=	96 9	4 95	95	91	93	94	94	94	95	92	94	97	98	98
20 GHz	97 9	7 97	97	95	96	96	98	97	97	96	97	99	99	99

CHREACE PACED BUST CHRHADY.

PARAMETER	Ϋ́	ARL'	Y	31	ลห-พ	R :	AF	Ř-JI	111	JI	UL-SE	P	CI	T-DE	EC
	day	nit	d&n	day	n1t	d&n	day	nıt	d&n	day	nit	dan	day	nit	dan
Percent occurrence	20	4	12	17	3	10	15	5	10	21	4	13	28	5	17
AVG thickness Kft			.35	i		.33			.39			.32	l		. 34
AVG trap freq GHz	1		. 57	1		.42			.70			.53			.62
AVG lur and -H/Yft	i		100	l		83			133			183	ļ		80

FI EVATED DUCT SUMMARY:

PARAMETER	Y	EARL	1	J	ลห-หเ	AR	Al	7 2-31	JN _	JI	L-SI	Р	-00	T-DI	EC
	day	nit	dån	day	nit	d£n	day	nit	d&n	day	nit	din	day	nit	dan
Percent occurrence	24	42	33	39	64	52	22	40	31	14	22	18	20	48	38
AVG top ht Kft			6.0	l		6.1			6.2	ļ .		4.9	İ		6.6
AUG thickness Kft			.47	_		.56	l		.47	i	_	.38	L		. 46
AVG trap freq GHz			.37			.24			.32			.63			. 31
AVG lyr grd -N/Kft	ĺ		68	(€4	ĺ		59	l		58			60
AVG lyn base Kft			5.6	1		5.7	İ		5.9	i		4.6			6.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY		Jf	N-HF	iR :	AF	R-JU	IN	Jl	JL-SE	P	0:	T-DE	c
	day nit	<u>d&n</u>	day	110	din	day	nit	dtn	dav	n11	d&r	day	nit	dŁn
0 to 10 Feet	2 1	2	2	2	2	3	1	2	2	1	•	1	0	1
10 to 20 Feet	1 2	2	1	3	2	1	1	1	1	3	2	1	1	1
20 to 30 Feet	2 3	3	2	4	3	2	_4	3	2	4	3	_ 2	1	1_
30 to 40 Feet	3 7	5	3	- 8	-5	3	8	6	3	7	5	3	4	
40 to 50 Feet	5 15	10	6	16	11	4	15	Ģ	4	17	11	4	12	ઠ
50 to 60 Feet	7 19	13	8	22	15	7	18	12	7	_18	12	5	18	12
60 to 70 Feet	8 18	13	10	16	13	7	19	13	8	20	14	9	19	14
70 to 80 Feet	8 14	11	10	13	11	7	13	10	7	11	9	9	18	13
90 to 90 Feet	_7 7		7	6	7	4	6	5	6	6	6	9	10	9
90 to 100 Feet	5 4	5	5	3	4	5	4	4	3	3	3	g.	6	7
above 100 Feet	51 10	30	45	7	26	56	12	34	56	19	33	48	18	29
Mean height Fee?	118 67	93	189	61	85	125	69	97	127	67	97	113	78	32

GENERAL METEOROLOGY SUMMAPY:

PARAHETER	YEARL	Y	JA	N-MA	IR I	8F	-Ş-J	JK	J	JL-S!	P	Ōŧ	T-DI	EC
	dan nit	<u>d&</u> n	day	nit	den	day	nıt	den	day	nit	d&n	day	nit	dŁn
% occur EL&SB dcts		2			3			2			9			3
% occur 2+ EL dcts		8	i		14			9			4	ĺ		6
AVG station N		382			373			383			388	ł		384
AVG station -N/Kft		19	}		18			18			19	•		19
AUG sec wind Kis	15 14	14	15	:4	14	_15	14	14]	13	12	13	16	16	16

人名斯特 化对邻苯酚 医阿拉勒氏试验检尿病 医二甲状态 医多种毒素 人名英格兰人姓氏格兰

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TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SURMARY

19 16 N 166 39 E (+) INDICATES INSUFFICIENT DATA Specified location:

Radiosonde source : 91245 19 16 N 166 39 E Radiosonde station height: 16 Feet

Surface obs source: MS56 15 00 N 165 00 E

PERCENT OCCUPRENCE OF ENHANCED SUPPRICE-TO-SURFACE RADAR/FSM COM RANCES:

PERCENT OCCURRENCE	Ur E	HUDDI	CED .	SURF	UCE -	10-31	JAFAL	-E -	ייי ער	_E 211	COA	L 13131	353.		
FREQUENCY	Y	EARL'	Υ —	J	AH-N	7R	A	PR-JI	<u>и</u> —	Jŧ	JL-51	P	0	CT-DE	EC
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	<u>ni</u> t	dan	day	nit	dan
100 MHz	8	2	- 5	8	2	5	7	-1	4	7	1	4	9	3	6
1 GHz	65	15	40	62	14	38	68	16	42	67	13	46	64	18	41
3 GHz	77	27	52	74	24	49	77	26	_52	77	22	49	79	35	57
6 GH±	92	74	83	91	78	81	91	73	82	91	69	80	94	83	88
10 GHz	97	94	95	97	92	94	96	95	95	96	92	94	98	98	98
20 GHz	98	97	98	98	96	97	97	98	98	98	96	97	99	99	99

CUPEACE RACED DUCT CUMMARY.

PARAMETER	Y	EARL'	Y	J	AH-H	AR	B	R-JI	JN	JI	JL-SI	P	00	CT-DI	ΕĊ
	day	nit	d&n	day	nit	d&n	day	nit	den	day	nit	den	day	nit	din
Percent occurrence	41	- 9	25	44	11	28	37	7	22	37	4	21	44	13	29
AVG thickness Kft			. 42			.42	l .		.43	l		.39	l		.43
AVG trap freq GHz	!		. 41	İ		. 44	l		.38			.43	ĺ		. 40
RVG lyr grd -N/Kft			72			69			77			70			74

PARAMETER	Y	EARL	Υ	J	AH-H	AR	A	PR-JI	JH	J	UL-S!	EP _	90	CT-D	C
	day	211	d&n	day	n <u>i</u> t	d&n	day	nit	_d&n	day	nit	d&n	day	nit	dan
Percent occurrence	36	50	43	53	72	63	34	59	42	13	21	17	45	55	50
AYG top ht Kft	1		6.6			6.5	l		6.5	i		6.4	į		6.7
AVG thickness Kft			.51			.56	L		.50	L		.42			. 57
AVG trap freq GHz			.30			.23			.29			.48	Γ.		.22
AVG lyr grd -N/Kft	1		62			64	i		63	1		57	l		64
AVG lyr base Kft	1		6.2	l		6.2	1		6.2	1		6.1	ļ .		6.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCC	JRRENCE	YE	ARL	7	JI	an-He	18	A	PR-JU	JN	31	JL-Si	Р	00	T-DE	C
			day	nit	dŁn	day	nıt	d&n	day	nit	dan	day	nıt	dan	day	nit_	dan
0 to	18	Feet	2	- 1	_ 2	2	.5	Ž	3	1	2	2	1	1	1	9	_ :
10 to	20	Feet	1	2	2	1	3	2	1	1	1	1	3	2	1	1	1
20 10	30	Feet	_2	3	3	_ 2	_ 4	3	_2	4	3	_ 2	4	3	_ 2	_1	1
30 to	46	Feet	3	7	5	Ş	8	-5	3	8	6	3	7	5	3	4	- - -
48 to	50	Feet	5	15	10	6	16	11	4	15	9	4	17	11	4	12	ક
50 to	60	Feet	7	:9	13	_ 8	22	15	7	18	12	7	18	12	6	18	12
68 to	70	Feet	8	18	13	10	16	13	7	19	13	5	28	14	9	19	-14
78 to	88	Feet	8	14	11	10	13	11	7	13	10	7	11	9	9	18	13
80 to	90	Feet	7	7	7	7	5	7	4	6	5	5	. 6	6	9	10	5
98 to	100	Feet	5	4	5	5	3	4	5	4	4	3	3	3	9	6	7
above	100	Feet	51	19	39	45	7	26	56	12	34	56	10	33	48	10	29
Hean he	1 ghi	Feet	118	67	93	189	61	85	125	69	97	127	67	97	113	70	ج ۽_

GENERAL HETEOROLOGI	2010 Inc.	<u></u>												
PARAMETER	YEARL	Y	JF	111-MF	38	A.	R-J	JN	J	JL-SI	EP	00	7-DE	EC
!	day rit	d£n	day	nit	d&n	day	nit	den	day	<u>n</u> 11	dan	day	nıt	atn
% occur EL&SB dcts		-9			13			7			2			13
% occur 2+ EL dcts		9	1		11			8			4			12
AVG station N	i	378	ļ		366	1		377			388	ł		380
AVG station -N/Kft		29	l		18	1		20			29			20
AVG sfc wind Kts	15 14	_ 14	15	14	14	15	14	14	13	12	13	16	16	16

Specified location: 15 00 N 155 00 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 91250 11 24 N 162 24 E

Radiosonde station height: 20 Feet Surface obs source: NSS7 15 00 N 155 00 E

FRE	DUENCY	YE	EARL'	Y	Ji	an-Hi	AR	A	PR-J1	JN	31	JL-SI	EP	- 00	CT-DI	EC
		day	nit	din	day	nit	d&n	day	nit	d&n	day	nit	dån	day	nit	dan
199	HHz	3	1	2	3	1	2	2	1	1	4	1	2	4	1	3
1	GHz	53	10	32	49	18	30	56	10	33	53	10	31	53	10	32
3	GH2	65	19	42	63	22	42	69	19	44	63	16	39	67	21	44
6	GHZ	88	69	78	87	69	78	88	71	79	86	62	74	89	75	62
18	GH2	95	93	94	95	93	94	95	94	94	95	89	92	96	94	95
20	GHz	97	96	97	97	96	95	97	97	97	97	95	56	98	97	97

SURFACE RASED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	J	H-HI	AR	AI	R-J	JK.	Ji	JL-SI	ĒΡ	81	CT-D	EC
	day	กระ	d&n	day	nit	<u>d&</u> n	day	nit	d&n	day	nit	den	day	nit	dtn
Percent occurrence	20	4	12	17	3	10	15	- 5	10	21	4	13	28	5	17
AVG thickness Kft			.35	1		.33	i		.39	!		.32	l		.34
AVG trap freq GHz	İ		.57	i		. 42	ı		.70	l		.53	l		.62
AVG lyr grd -N/Yft	j		199	l		83	l		133	l		103	l		80

ELEVATED DUCT SUMMARY:

SECTION OF THE PROPERTY OF THE

PARAMETER	Y	EARL'	,	Ji	ลห-หเ	RF T	B!	R-JI	JH	J	JL-SE	P	00	T-DE	EC
	day	nit	den	day	nit	d&n	day	nit	dan	day	การ	den	day	nit	dan
Percent occurrence	24	42	33	39	64	52	22	40	31	14	22	18	20	48	30
AVG top ni Kfi	i		6.0	l		6.1	ı		6.2			4.9			6.6
AVG thickness Kft			.47			.56	i		.47			.38	1		.46
AVG trap freq SHz			.37			.24	i —		.32			.63			.31
AVG lyr grd -N/Kft	ŀ		50			64	ı		59			58	l		60
AVG lyr base Kft	Ì		5.6	l		5.7	!		5.9	İ		4.6	1		6.2

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EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCU	PRENCE	Y	ERRL'	Ý	J	AN-M	ar 🗆	A.	PR-J	ÜN	J	UL-SI	EP	0	CT-DI	EC
			dav	nit	dŁn	day	nit	<u>đ</u> ån	day	nıt	d&n	day	nit	dan	day	nit	den
8 10	18	Feet	2	1	2	2	1	2	3	<u> 1</u>	2	Ž	1	1	2	1	1
10 to	26	Feet	1	3	2	1	3	2	1	2	2	2	4	3	1	2	1
20 10	30	Feet	2	4	3	2	4	. 3	į 2	4	3	3	6	4	2	2	2
30 to	40	Feet	3	8	6	3	8	6	3	8	5	4	10	7	3	6	- 5
48 to	50	Feet	6	16	11	6	16	11	5	17	11	7	19	13	6	14	18
50 ± o	60	Feet	٩	21	15	9	19	14	7	20	14	10	22	16	9	21	15
60 to	70	Feet	9	19	14	10	17	13	8	21	14	10	17	13	10	20	15
78 to	89	Feet	8	12	10	18	13	11	7	12	10	8	9	9	9	15	12
88 to	90	Feet	7	6	6	8	_ 7	.8	7	5	6	5	3	4	7	7	7
90 to	100	Feet	5	3	4	6	4	5	5	3	4	4	2	3	6	4	_ 5
above	100	Feet	46	8	27	43	8	25	52	7	39	45	7	26	44	8	26
Hear he	1 gh	Feet	113	63	88	168	54	86	121	63	92	113	59	86	1110	66	88

PARAMETER	YE	BRL'	8	Jí	4H-H	AR 🗌	A:	R-J	UN	J	JL-SI	ĘP	00	T-DE	EC
	day	nit	din	day	nit	d£n	day	nit	d\$n	day	-11	d\$ ~	day	nit	din
% occur EL&SB dcts			2			3			2			0			3
% occur 2+ EL dcts	İ		8	l		14	l		9	i		4	l		6
AVG station N			382	ŀ		373	l		383	1		388	1		384
AVG station -H/Kft			19	•		18	ĺ		18	1		19	l		19
AVG sfc wind its	14	13	14	15	14	15	14	13	14	12	11	12	15	15	15

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

13 33 H 144 49 E (*) INDICATES INSUFFICIENT DATA Specified location:

Radiosonde source : 91217 13 33 N 144 49 E

Radiosonde station height: 364 Feet

Surface obs source: MS58 15 00 N 145 00 E

PERLEN! (UCCORRENCE O	OF E	MILITA	LED :	JUKF	nce-	0-30	UKFRI	- F	אחעו	E 311		R FINE	<u> </u>		
FRE	DUENCY	Y	EARL'	Y	J	RN-M	ir 🗌	AI	R-JU	JH	7,	UL-SI	EP _	T of	CT-DE	EC
L		day	nit	d&n	day	nıt	d&n	day	nıı	dŁn	day	nıt	d&n	day	nit	dtn
100	MHz	3	-0	2	2	. 0		3	0	2	4	9	2	4	0	— <u>z</u>
1	GHz	49	10	29	43	11	27	54	11	32	51	9	39	46	9	28
3	GHz	62	19	49	59	23	41	65	18	42	61	15	38	61	20	40
6	GHz	87	68	78	87	73	80	88	68	78	86	60	73	88	72	80
10	GHz	95	92	94	95	93	94	95	91	93	95	90	93	96	93	94
29	GHz	97	96	97	98	97	97	97	96	97	98	9€	97	97	97	97

PARAMETER	YI	ARL'	Y	J	คพ-หค	RR	Al	P-JI	ИL	Jŧ	JL-\$1	EΡ	01	CT-DI	EC
	day	nit	d&n	day	nit	dån	day	nit	dan	day	nit	d&n	day	ni t	d£n
Percent occurrence	19	2	10	19	4	12	16	1	9	22	2	12	18	1	18
AYG thickness Kft	l		.37			. 25	l		.44			.36	ĺ		.43
AVG trap freq GHz	l		.60	•		1.1	1		.42			.46			.40
AVG lun grd -N/Kft	l		74			79	ı		80	i		69	ļ		76

PARAMETER	YE	ARL'	Y	J	AH-H	RR	AI	R-J	Uhi	J	UL-SI	EP	00	CT-DI	EÇ
	day	nit	dŁn	day	nit	<u>d</u> &n	day	nit	dŁn	day	nit	d&n	day	nit	den
Percent occurrence	35	40	37	53	64	- 5 9	39	44	42	11	13	12	35	39	37
AVG top ht Kft	i		6.3	į		6.7	ļ		6.6	1		5.9	ŀ		6.3
AVG thickness Kft			. 48	1		.60			. 48			.37			.46
AYG trap freq GHz			.39	Γ-		.20	i		.34			.65			.38
AVG lyn grd -N/Kft	i		59	i		62			59			54	Ī		69
AVG lyr base Kft	!		5.9	ļ .		6.3	l		6.2	l		5.6	1		5. ₺

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCUR	RENCE	YE	ARLI	7	J	AH-HI	18	R!	PR-JI	JH	JI	JL-SI	Р	00	T-DE	.c
			day	nıt	d&n	day	nit	d&n	Cay	nit	din	dav	nit	dån	day	ntt	din
0 to	10 Fe	et !	2	1	2	2	1	2	3	2	2	2	1	1	2	1	2
10 to	20 F	eet	1	2	2	1	2	2	1	2	2	1	3	2	1	2	1
28 to	30 F	et	2	4	3	3	4	3	2	_ 5	3	_ 3	6	4	2	4	3
30 10	49 F	ret	4		6	4	8	6	3	8	- 5	4	11	8	3	7	5
40 to	50 F	eet	6	16	11	6	13	18	5	16	19	8	20	14	6	15	10
58 to	68 Fe	<u>et</u> j	9	21	15	9	19	14	8_	_22	15	11	22	17	9	28	14_
60 to	70 F	et	11	18	15	11	18	15	10	18	14	11	15	13	13	28	<u>-</u> -
70 to	80 Fe	eet	9	11	10	11	14	13	8	10	9	8	8	8	10	13	11
80 10	98 Fe	et	8	_ 6	7	9	. 8	8	7	_ 5	6	6	4	5	19	7	9
90 to	100 F	et	5	3	4	7	4	5	5	2	3	4	2	3	6	3	4
above	100 F	eet	42	9	25	37	9	23	48	10	29	42	8	25	38	8	23
Hean he	ight F	ect	107	64	86	181	66	83	115	65	90	109	61	85	102	65	84

PARAMETER	YE	ARL'	Y	J	AN-M	AR	AF	R-J	UH	Ji	JL-SI	EP	00	T-DI	EC
	day	nit	din	day	nit	dŧn	day	nit	d&n	day	nit	dŧn	day	nit	den
% occur EL&SB dcts			3	i -		6			2			1			2
% occur 2+ EL dcts			9	l		13	ĺ		11	i		1			11
AVG station N			379	1		372			378			384			382
AVG station -H/Kft			28			19			20			26	Ī		20
AVG sfc wind Kts	14	13	13	16	15	15	13	12	13	11	11	11	15	14	:5

(*) INDICATES INSUFFICIENT DATA

Specified location:

15 00 N 135 00 E

Radiosonde source : 91413

9 28 N 138 84 E

56 Feet

Radiosonde station height:

15 00 N 135 08 E Surface obs source: MS59

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SUFFACE RADAR ESM COH RANGES:

FREQUENCY	YI	ARL'	Υ	31	3H-HI	38	A	PR-JU	ĴΉ	31	JL-51	P	Ö	T-DI	EC
	day	nıt	dan	day	nit	dan	day	nit	d&n	day	nít	dan	day	nit	dan
100 HHz	4	1	3	4	1	2	4	1	3	4	1	3	4	2	3
1 GHz	48	13	31	45	12	29	57	15	36	45	11	28	45	15	38
3 GHz	61	24	42	60	25	43	67	24	45	55	19	37	60	27	43
6 GHz	86	68	77	86	72	79	88	67	77	83	62	73	86	72	79
10 GHz	95	92	93	95	93	94	95	91	93	95	91	93	94	93	94
20 GHz	97	96	97	97	97	97	97	96	9€	98	96	97	97	97	97

SUPFACE BASED DUCT SUMMARY:

PARAMETER	Ϋ́I	EARL'	ľ	J	H-H	R.R	A	R-J	JH	JI	JL-SI	EP	O	CT-DI	EC
	day	nit	d&n	day	nit	dan	day	ni t	dŁn	day	nit	d&n	day	nit	dån
Percent occurrence	26	9	17	25	- 6	16	25	7	16	26	10	18	28	11	20
AVG thickness Kft			.27	l		. 25	[.31	ļ		.27			.26
AVG trap freq GHz	İ		.71	i		. 65	l		.61	i		.78			.81
AVG Tyr grd -N/Kft	Ī		181	ļ		89	l		105			122			86

ELEVATED DUCT SUHHARY:

PARAMETER	Y	EARL'	Y	3	RN-M	AR	คา	PR-JI	JN	Jt	JL-SE	EP	00	T-DE	EC.
	day	n:t	d&n	day	nit	dŁn	day	nit	dan	day	nit	den	day	11n	d&n
Percent occurrence	25	23	24	39	38	39	24	19	22	13	8	11	23	27	25
AVG top ht Kft 📑	i		5.7	l		6.4			6.8	i		3.5			6.1
AVG thickness Kft			. 46			.53	L		.44	l		. 46			.42
AVG trap freq GHz			.32			.24			.33			.36			.36
AVG lyr grd -N/Kft	1		59	l		61	ŀ		61	1		56			57
AVG lyr base Kft	i		5.4	l		6.0)		6.5	1		3.1	l		5.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT O	CCURRENCE	YE	ARL	1	J	าห-พ	R.	A.F	P-J	JH	J	JL-SE	P	00	T-DE	EC
		day	nit	d\$n	day	nit	d&n	day	nit	din	day	211	den	day	nit	dtn
0 to 1	0 Feet	2	i	2	2	1	2	3	1	2	2	1	2	2	2	2
18 to 2	0 Feet	1	3	2	1	2	2	1	3	2	2	4	3	2	2	2
20 10 3	8 Feet	3	5	4	3	4	3	2	6	4	4	6	_ 5	3	4	4
30 to 4	0 Feet	4	9	7	4	\$	- 6	4	9	6	6	11	8	5	8	5
40 to 5	8 Feet	8	17	12	7	14	11	6	17	1:	10	20	15	7	15	11
50 ±0 6	9 Feet	10	29	15	10	19	14	- 8	20	14	13	22	17	10	29	15
60 to ?	0 Feet	11	17	14	11	18	14	10	16	13	12	16	14	12	18	15
70 to 8	0 Feet	9	11	10	11	13	12	6	9	8	9	9	9	16	11	11
80 to 9	8 Feet	7	6	7	9	8	8	6	_5	5	5	4	_ 5	8	7	8
90 to 1	00 Feet	5	3	4	6	5	5	4	3	3	4	2	3	6	4	5
above 1	00 Feet	39	9	24	36	9	22	49	12	39	35	6	21	35	9	22
Hear her	glit Feet	183	63	83	98	65	82	118	66	92	100	58	79	98	64	81

PARAMETER	YE	ARL.	7	Ji	an-Hi	RR	AF	R-J	JH	JU	IL-SE	P	00	CT-DE	C
	day	nit	d&n	day	nit	ರಹಿಣ	day	การ	den	day	กาง	đin	day	กาเ	dtn
% occur EL&SB dcts			3			6			2			2			2
% occur 2+ EL dcts			6			11	i		4			1	•		6
AVG station 11			385	1		386			336			386	ŀ		387
AVS station -N/Kft			20	ł		19			20			20	l		20
AVG afc wind Fis	14	13	14	16	16	16	12	11	11	12	12	12	16	15	15

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMHARY

Specified location: 18 10 N 120 31 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source: 98223 18 10 N 120 31 E Radiosonde station height: 13 Feet

Surface obs source: MS60 15 00 N 125 00 E

DEDEEDT ACCUPRENCE OF ENGINEER CURRENCE TO_CURRENCE DOROR FOR COM DOUCES

PERCENT OCCURRENCE	UF E	unum	ren .	SUFF	HLE+	• U-5	URFR	LE K	RUNK	<u> 250 n</u>	· LUM	KHN	<u> </u>		
FREQUENCY	Į Y	ERRL'	Y	J	AN-M	AR	R	PR-J	UN _	j J	UL-SI	EP	0	CT-D	EC
	day	nit	d&n	day	nit	dŁn	day	nit	d&n	day	njt	<u>ժ</u> եռ	day	nit	Qtn
108 MHz	2	0	1	1	9	1	3	8	1	3	- 0	2	3	0	1
1 GHz	43	12	28	38	11	24	51	15	33	45	11	28	41	11	26
3 GHz	55	21	38	51	23	37	68	22	41	55	_ 17	_36	54	_22	38
6 GHz	81	64	72	86	68	74	82	62	72	81	69	70	81	66	74
10 GHz	93	89	91	92	91	92	92	87	98	94	87	90	93	89	91
20 GHz	96	95	95	95	95	95	95	94	94	97	94	96	96	95	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	J	AN-11	AR.	A:	PR-J	JN	J	JL-S	EΡ	C	T-DI	C
	day	nit	den	day	nit	1&n	day	nit	d&n	day	nit	dtn	day	กit	dan
Percent occurrence	14	0	7	6	9	3	14	- 8	7	28	9	10	17	8	9
AVG thickness Kft	1		. 34	ļ		.38	ì		.35	i		. 28	[.35
AVG trap freq GHz	l		.50			.36			.42			.6€			.57
AVG lyr grd -H/Kft	L		142	i		141			197			124			107

ELEVATED DUCT SUMMARY:

PARAMETER	l YE	PRL'	r] J	คห-ห	BR	S SI	PR-J	JH	ו דו	JL-SI	EP	D1	CT-DI	EÇ
	day	nıt	dŧn	day	nit	dŁn	day	ព្យ៖	dŁn	day	nit	dŁn	day	nit	ds a
Percent occurrence	5	0	2	8	8	4	2	- 0	1	3	- 0	2	6	- 0	3_
AVG top ht Kft	ĺ		6.7	ĺ		6.5	ŀ		7.4	•		6.2	Ì		6.8
AVG thickness Kft			.52			.43			.90			.27			. 47
AVG trap freq GHz	i -		.89			.89			.16			2.1			.42
RVG lyr grd -N/Kft	ļ		63	1		53	ĺ		74	1		58	İ		68
AVG lyr base Kft			6.4			6.1			6.9	L		6.0	L		6.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

FERCENT OCCURRE		ARL			H-HE			- FR-J1	JN	J	JL-SI	P	00	T-DE	EC.
	jday	nit	dŁn	day	ntt	din	day	nit	den	day	nit	din	day	nit	d&n
0 to 10 Fee	t 3	2	3	3	2	3	3	2	3	2	2	2	3	3	3
18 to 28 Fee	1 2	4	3	2	3	2	2	4	3	2	4	3) 2	3	2
20 to 30 Fee	1 3	6	5	3	4	4	3	- 6	5	4	7	_ 6	4	6	_ 5
38 to 48 Fee	ε 5	9	7	5	-8	7	5	19	7	6	9	8	5	9	7
48 to 50 Fee	ષ 8	16	12	9	15	11	7	15	11	10	18	14	8	14	11
50 to 60 Fee	1 18	18	14	18	18	14	9	18	_13	12	20	16	10	17	14
60 to 70 Fee	t 11	15	13	11	15	13	9	14	12	11	15	13	1:	16	14
78 to 88 Fee	ι 9	10	9	18	12	11	7	8	7	8	8	8	9	11	10
80 to 90 Fee	1 6	6	- 6	8	7_	8	5	5	5	5	4	5	. 8	8	8
90 to 100 Fee	1 4	3	4	6	4	5	4	2	3	3	2	3	5	4	- 5
above 100 Fee	t 38	12	25	35	11	23	45	15	39	37	11	24	34	11	22
Hean height Fe	21 101	66	83	96	67	82	112	_68	90	101	_ 63	82	95	65	88

PARAMETER	YE	ARL.	Y	36	111-H	RR	AF	R-JI	אט	Jŧ	Ji -SI	EP	0:	T-DE	:C
	day	nit	dŁn	day	nit	d&n	day	nit	đŁn	day	nit	dŁn	day	nit	dEn
% occur EL&SB dcts						1			0			- 2			2
% occur 2+ EL dcts			0			8	i		9			8	1		8
AVG station N			378	İ		360			384			387	i		381
AVG station -N/Kft			18			15			18			19			18
AVG SEC WIND YES	14	13	13	16	15	16	11	_10	11	12	11	12	15	15	16

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10 18 N 123 58 E 10 18 N 123 58 E

Radiosonde station height: 30 Feet

Surface obs source: MS60 15 80 N 125 80 E

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RAPAR ESM COM RANGES:

FREQUENCY	Y	EARL	Y .	J	AN-M	ar 💮	AF	R-JU	JH	J:	リレーSI	EP	00	CT-Di	EC 33
	day	nit	d&n	day	nit	d&n	day	nit	dŧn	day	nıt	d&n	day	nıt	dån
100 HH≥	T 1	8	0	*	ź	*	2	0	1	8	Ð	0	1	. 6	0
1 GHz	41	12	27	¥	¥	*	49	15	32	38	11	24	36	11	23
_3 GHz	51	20	36	*	*	#	58	_22	40	47	17	32	49	22	35
6 GHz	79	63	71	*	*	*	81	62	71	77	60	68	79	66	73
18 GHz	92	88	90	+	*	*	92	87	89	92	87	90	92	89	90
20 GHz	95	94	95	*	*	*	94	94	94	96	94	95	95	95	95

SUCCOSE BOSED BUST SUMMORY

เหหบร	RPY:													
71	EARL	7	J	AH-H	AR	R	PR-J	UH	31	UL-SI	ΕP	0	CT-DI	EC
day	nit	din	day	nit	dtn	day	nit	Can	dav	nit	dan	day	nıt	d&n
6	0	3	0	9	9	13	9	7	4	- 0	2	5	8	3
		.17	İ		*	•		.28	l		. 11	1		.28
		2.9	1		*	!		1.1			6.8	!		.70
_		98			*	l		70			*			127
	day 6	day nit	YEARLY day nit din 6 0 3 .17 2.9	/EARLY Ji day nit din day 6 0 3 0 .17 2.9	YEARLY JAN-MI day nit din day nit 6 0 3 0 0 .17 2.9	YEARLY JAN-MAR day nit din day nit din 6 0 3 0 0 0 .17 * 2.9 *	YEARLY JAN-MAR AN day nit dtn day 6 0 3 0 0 0 13 .17 * 2.9 *	YEARLY JAN-MAR APR-J day nit din day nit din day nit 6 0 3 0 0 0 13 0 .17 * 2.9 *	YEARLY JAN-HAR APR-JUN day nit din day nit din day nit cin 6 0 3 0 0 0 13 0 7 .17 * .20 2.9 * 1.1	YEARLY JÂN-HAR APR-JUN JI day nit dân day nit dân day 6 0 3 0 0 0 13 0 7 4 4 .17 * .20 2.9 * 1.1	YEARLY JAN-MAR APR-JUN JUL-SI day nit din day nit din day nit cin day nit 6 0 3 0 0 0 13 0 7 4 0 .17 * .29 2.9 * 1.1	YEARLY JAN-HAR APR-JUN JUL-SEP day nit din day nit din day nit cin dav nit din 6 0 3 0 0 0 13 0 7 4 0 2 11 .17 * .20 .11 2.9 * 1.1 6.8	YEARLY JAN-MAR APR-JUN JUL-SEP 00 day nit dtn day nit dtn day nit ctn day nit dtn day nit ctn day nit dtn day nit ctn day nit dtn day nit ctn day nit dtn day nit ctn day nit dtn day nit dtn day nit ctn day nit dtn day nit dtn day nit ctn day nit dtn day nit ctn day nit dtn day nit dtn day nit ctn day nit dtn day nit dtn day nit ctn day nit dtn day nit dtn day nit ctn day nit dtn day nit	YEARLY JAN-MAR APR-JUN JUL-SEP OCT-DIMETER day nit din day nit din day nit cin day nit din day

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL	Y	J	AK-H	R	A	R-JI	บห	JI	JL-SE	P	0	CT-D!	EC
	day	nıt	d&n	day	nit	din	day	nit	d&n	day	nit	dŁn	day	nıt	din
Percent occurrence	9	8	4	14	8	7	7	8	4	3	9	2	10	9	5
AVG top ht Kft			12	i		7.9	l		+	i		19			9.0
A ^y G thickness Ift		_	.50			. 48	!		. 92			. 14			.45
AVG trap freq GHz			1.1			1.2			.09			1.6			1.5
AVG lyr grd -N/Kft	•		66			57	i		*	ļ .		72	ŀ		67
AVG lyr base Kft	ļ		11	!		7.4	ı		7.6	l		18	i		8.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCUPREN	ICE Y	EARL	8	J1	AN-M	12	A.	PR-JI	JN	3	UL-SI	EΡ	0	CT-DI	EC
	day	nit	den	day	nit	dŁn	day	nit	dŁn	day	nit	d&n	day	nit	dan
0 to 10 Feet	3	2	3	3	2	3	3	2	3	2	2	2	3	3	3
10 to 20 Feet	2	4	3	2	3	2	2	4	3	2	4	3	2	3	2
28 to 38 Feet	3	6	5	3	4	4	3	6	5	_ 4	7	6	4	6	5
30 to 40 Feet	5	9	7	5	3	7	5	10	7	6	9	8	5	9	7
48 to 58 Feet	8	16	12	s	15	11	7	15	11	18	13	14	8	14	11
50 to 60 Feet	10	18	14	10	_18	_14	9	18	13	12	20	16	10	17	14
60 to 70 Feet	11	15	13	11	15	13	9	14	12	11	15	13	11	16	14
70 to 80 Feet	9	10	9	10	:2	11	7	8	7	8	8	8	9	11	10
80 to 90 Feet	6	6	- 6	8	7	8	5	5	5	5	4	5	8	. 8	. 8
98 to 188 Feet	4	3	4	6	4	5	4	2	3	3	2	3	- 5	4	5
above 100 Feet	j 38	12	25	35	11	23	45	15	30	37	11	24	34	11	22
Hean height Fee	1 101	- 56	83	96	67	82	112	68	98	161	63	82	95	65	80

PARAMETER	YE	APL	7	31	AH-H	RR	AF	R-J	N	JU	JL-S	ĒΡ	0	CT-DI	EC
	day	nit	đEn	USD	210	den	day	nit	d\$n	day	nit	den	dav	nit	dtn
% occur EL&SB dcts			8			Ō			0			0			0
% occur 2+ EL dets			0	Į.		Θ	i		0	İ		9	Į		9
AVG station N			383	ŀ		376			388			384	1		385
AVG station -N/Kft			18	i		16			19	ŀ		19	l		18
AVG sfc wind Kis	14	13	13	16	15	16	11	10	11	12	11	12	16	15	16

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

(*) INDICATES INSUFFICIENT DATA Specified location: 16 49 N 112 19 E Radiosonde source : 59981 16 49 N 112 19 E

Radiosonde station height: 52 Feet

Surface obs source: MS61 15 00 N 115 00 E

PERCENT OCCUPPENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESP COM RANGES:

FREQUEN	CY Y	EARL	Y	Ji	AN-MA	1R	RI	PR-JI	JH	J	JL-SI	ΕP	0	cr-D	EC
	day	nit	d&n	day	nit	dŁn	day	ការដ	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	2	2	3	1	2	3	3	3	3	2	3	2	1	1
1 GH2	41	19	30	41	18	29	51	27	39	40	19	30	31	14	23
3 GHz	52	36	41	52	28	40	61	36	48	52	30	41	46	27	36
6 GHz	89	68	74	78	66	72	83	71	77	79	68	74	78	68	73
19 GHz	92	90	91	91	89	90	94	98	92	93	98	91	92	89	91
20 GHz	96	95	95	95	94	94	96	96	96	96	96	96	95	95	95

PARAMETER	_	EREL	Y	J	AN-M	RR	A	R-JI	UN	Ji	JL-SI	Р	00	T-DI	EC
	day	nit	ರಹಿನ	day	nit	dan	day	nı t	dan	day	nit	dŁn	day	nit	d&n
Percent occurrence	18	13	16	18	- 3	13	19	17	18	25	28	23	18	7	9
AVG thickness Kft	İ		.27	l		.32			. 24			.18	ł		.33
AVG trap freg GHz			- 68	l		.51	l		. 53			1.1	l		.57
AVG lyr grd -N/Kft	L		225			189	Ĺ		168	i		306	Ĺ		238

PARAMETER	Ϋ́I	EARL	Y	J	A!I-H	RR	A!	PR-J	UN	J	JL-\$1	EP	0	CT-D	EC
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	การ	din	day	nit	dżn
Percent occurrence	7	6	6	12	13	13	5	4	- 5	4	2	3	6	3	<u> </u>
AVG top ht Kft			5.2	l		6.8	ŀ		3.6			3.6			7.0
AVG thickness Ift	L		.51		_	. 41	l .		.52	1		.72			.36
AVG trap freq GHz			.43			.52			.49			.19			.52
AVG lyr grd -H/Kft			56	l		53	1		52	l		65	ŀ		54
AVG lur base Kft	ŀ		4.8	1		6.4	i		3.1	l		3.1			6.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT O	CCURRENCE	YE	ARLY	7	J	AH-HA	R.	AI	PR-JU	JN	Ji	JL-SE	Р	00	T-D	:C
		dav	nıt	d&n	day	nıt	d&n	day	nit	<u>dsn</u>	day	nit	den	day	nıt	dt.
0 to 1	8 Feet	3	3	3	4	4	4	3	2	2	3	2	2	3	3	3
10 to 2	0 Feet	2	3	3	2	3	3	2	3	2	2	3	3	2	3	2
20 to 3	8 Feet	_ 4	6	5	4	6	5	3	6	_ 5	4	7_	- 6	4	_ 5	5
30 to 4	0 Feet	6	9	8	6	19	- 8	5	9	7	6	10	8	6	- 9	8
40 to 5	ii Feet	9	15	12	9	15	12	7	14	11	10	16	13	9	13	11
50 to 6	8 Feet	11	17	14	11	17	14	10	_17	13	12	19	15	12	17	14
60 to 7	9 Feet	11	15	13	11	14	12	18	14	12	12	16	14	13	16	14
70 to 8	0 Feet	9	10	9	9	11	10	7	8	8	9	9	9	11	12	1:
80 to 9	8 Feet	6	6	6	6	6	6	5	5	5	6	5	5	8	8	8
98 to 1	88 Feet	4	3	4	4	4	4	3	3	3	4	3	3	6	4	5
above 1	ed Feet	34	13	23	33	13	23	45	17	31	32	11	21	27	16	18
Hean hei	ght Feet	95	67	81	93	66	89	111	_73	92	92	64	78	86	64	. 75

GENERAL METEOROLOGY SUMMARY:

C

PARAMETER	YE	ARL'	Ÿ	Ji	H-HF	AR	R/	R~JI	UN .	J	UL-SE	ĔΡ	- 00	T-DE	EC
	day	กit	din	day	nit	dan	day	การ	dan	dav	กาง	d&n	day	nıt	den
% occur EL&SB dcts			0			1		-	9			9			8
% occur 2+ EL dcts			9	ĺ		1			9	{		8	l		0
AVG station N			378	1		365			386			396	l		371
AVG station -N/Kft			18			16	l.		20			20			17
AVG sfc wind Kts	14	14	14	15	14	14	11	10	11	14	13	13	18	17	17

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

13 43 N 100 30 E (*) INDICATES INSUFFICIENT DATA Specified location: Radiosonde source : 48455 13 43 N 180 30 E Radiosonde station height: 52 Feet

Surface obs source: MS63 15 00 N 95 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAP ESM COM RANGES:

LENCEUL C	DECORPERCE	Or E	11111111	LED	JUNE		10-31	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1211	<u> </u>					
FRE	RUENCY	Y	EARL'	Y	J	AH-M	RR	AI	アーノリ	ИL]]	UL-SI	EP	01	CT-DE	EC
i		day	nit	din	day	nıt	dkn	day	nıt	din	day	nit	d&n	dau	การ	dŁn
108	MHz	3	3	3	3	4	3	3	2	3	3	2	3	2	2	2
1	GH2	37	25	31	45	32	38	36	31	33	25	14	19	41	22	31
3	GHz	46	32	39	54	48	47	45	38	42	35	28	_28	51	32	41
6	GHz	74	63	69	76	68	72	74	67	71	68	55	62	78	63	70
10	GHz	98	87	89	90	88	89	98	97	88	91	88	89	91	86	88
28	GHz	95	94	95	96	95	95	95	95	95	96	95	95	\$5	93	94

SURFACE BASED DUCT S	SUMMI	ARY:													
PARAMETER	71	EARL'	Y	31	H-NA	ar -	A	PR-JI	HU	J	JL-S!	EP	01	CT-DI	EC
	day	nit	d&n	day	nit	d&n	day	nıt	d&n	day	nıt	d£r.	day	nit	dt n
Percent occurrence	20	18	19	16	21	19	23	19	21	26	16	21	15	15	15
AVG thickness Kft	ŀ		.30	l		. 40			.27	i		.20	l		.31
AVG trap freq GHz			.78	l		. 47			.91	İ		1.1	l		. 68
AVG for grd -N/Kft	l		124	l		132			189	İ		124			130

ELENATER RUCT CHEMORUS

PARAMETER	Y	EARL'	Ÿ	-31	AH-M	AR .	91	PR-JI	אַנ	J	JL-S!	P	0	CT-DI	EC
i	day	nit	dan	day	nit	dan	day	nit	din	day	nit	d&ก	day	nit	ರಹಿಗ
Percent occurrence	13	7	18	26	12	19	11		8	3	3	3	10	8	9
AVG top ht Kft			4.5	ļ.		6.0	ĺ		3.6	l		2.8	ŀ		5.6
AVG thickness Kft			. 45			.47			.57	L		.33			.41
AVG trap freq GHz			.57			.39			.28			.92			.62
AVG lyr grd -N/Kft	ł		56	i		56			60	Į .		51			57
AVG lyr base Kft	i		4.1	ì		5.6			3.2	1		2.5	ļ		5.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCL	URRENCE	Y	EARL	<i>(</i>	J	H-HH	AR .	A1	R-JI	JH	J	UL-SI	EP	01	CT-DE	EÇ
			day	nit	dîn	day	nit	dŁn	day	nit	dtn	đay	nit	dŁn	day	การ	d‡n
0 to	10	Feet	2	2	2	1	1	1	2	2	2	3	5	3	3	3	3
10 to	20	Feet	3	5	4	3	5	4	3	4	4	3	4	4	3	6	4
28 to	30	Feet	6	8	7	7	8	7	6	9	8	_6	- 8	7	5		_ 7
30 to	48	Feet	8	11	9	8	11	9	8	9	8	10	14	:2	5	10	8
40 to	50	Feet	12	17	15	9	14	12	11	14	13	17	24	21	10	16	13
50 to	60	Feet	13	17	15	10	15	13	14	15	15	17	20	18	12	17	14
60 to	78	Feet	11	11	11	8	10	9	12	11	12	13	13	13	10	10	18
78 to	80	Feet	8	7	7	7	8	7	7	7	7	9	5	7	9	7	8
80 to	90	Feet	5	4	4	5	4	4	5	3	4	4	_ 3	4	6	5	_ 5
90 to	100	Feet	3	2	3	4	2	3	3	2	2	2	1	2	4	3	4
above	189	Feet	29	16	22	38	20	29	27	24	25	14	6	10	35	15	25
Hear he	ı ghi	Feet	87	68	78	100	_7 <u>5</u>	87	85	80	82	64	53	61	95	66	81

PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit da	day nit dan	day nit den	day nit dan	day nit din
% occur EL&SB dcts		2	1	9	ž
% occur 2+ EL dcts		. 2	1	9	1
AVG station N	38	375	38?	385	375
AVG station -N/Kft	1	28	20	19	18
AVG sec wind Kts	10 9.4 1	7.2 7.1 7.2	18 9.1 9.4	13 13 13	10 8.6 9.1

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 16 01 N 108 10 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source: 48855 16 01 N 108 10 E Radiosonde station height: 20 Feet Surface obs source: MS61 15 00 N 115 00 E

DEDCENT ACCURDENCE OF ENGANCER CURRENCE-TO-CURRENCE DARGE-ECM/COM DONCES.

ENCENT OCCORS	2110 6 01 6	*****	LLD	SUFF	nc c	.0-3	041.11		DITE	2311	COIL	KHI	,,,,		
FREQUENCY		FARL	7	J	AN-M	AR	A	PR-JI	UN	J	UL-SI	EP	9	CT-D	ËC
	day	nit	d&n	day	nit	d&n	day	nit	dan	day	nit	d&n	day	nit	din
180 MHz		2 2	2	1	1	1	5	3	4	3	3	3	1		- 2
1 GHz	40	21	39	35	17	26	56	26	41	39	21	36	30	19	25
3 GHz	52	2 32	42	46	28	37	66	36	51	51	_32	42	44	_32	38
6 GHz	79	69	74	75	67	71	86	71	79	79	69	74	77	71	74
10 GHz	92	2 98	91	98	89	89	95	98	93	93	98	92	91	98	91
28 GHz	1 96	5 95	95	94	94	94	97	96	96	96	96	96	95	95	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL	Y	J	AN-N	AR	คา	R-JI	UN	J	UL-S	EP.	01	CT-D	EC
	day	nıt	dtn	day	nit	dŁn	day	nit	d&n	day	nit	d&n	day	nit	d£n
Percent occurrence	18	17	18	6	11	- 9	36	18	27	24	25	25	- 6	15	21
AVG thickness Kft			.33	l		.37	ĺ		.31	i		.21			.45
AVG trap freg GHz			.98	ļ		1.2			.72			1.2			.43
AVG lyr grd -N/Kft			123	<u> </u>		146	l		132			100			113

EFFUATED DUCT SUMBARY:

PARAMETER	Y	ERRL'	Υ	J	AN-M	RR	A!	R-JI	JN	Ji	JL-Si	P	00	CT-DE	: C
	Cay	nit	din	day	nit	den	day	nit	dan	day	nit	d&n	day	nit	den
Percent occurrence	26	23	25	46	38	43	18	9	14	7	14	11	33	31	- 7
AVG top ht Kft			6.8	ŀ		6.4	l		6.6	ł		7.0	l		7.0
AVG thickness Ift	L		. 46	L .		.52	l		. 40	L		.31	١.		. 59
AVG trap freq GH=			.55			.28			1.0			.70			.26
AVG lyr grd -N/Kft			53			66	1		68			56	i		61
AVG lyr base Kft			6.5			6.1	ı		6.3	ł		6.8	1		6.6

EVAPORATION BUCT HISTOGRAM IN PERCENT OCCUPRENCE:

ETHPORNITON DOCT HI	, ,,		IN P	CACE	0	<u> </u>	RENU	<u></u>							
PERCENT OCCURRENCE	- Y	EUST.	Υ	31	AN-MI	AR.	R	PR-J	JH .	J,	JL-5	P	0:	T-DE	C
	day	nit	dŁn	day	nit	d&n	day	กาเ	d&n	day	D1:	d&n	day	nıt	dan
0 to 10 Feet	3	3	3	4	- 4	4] 3	2	2	3	- 2	2	3	3	3
10 to 20 Feet	2	3	3	2	3	3	2	3	2	2	3	3	2	3	2
20 to 30 Feet	<u> </u>	6	5	4	6	5	3	- 6	5	4	7	_ 6	4	5	5
30 to 40 Feet	6	9	8	6	10	8	5	9	?	6	10	8	6	9	8
40 to 50 Feet	9	15	12	9	15	12	7	14	11	18	16	13	9	13	11
50 to 60 Feet	111	17	14	11	17	14	10	17	13	12	_ 19	15	12	17	14
60 to 70 Feet	11	15	13	11	14	12	10	14	12	12	16	14	13	16	14
70 to 80 Feet	9	18	9	9	11	10	7	8	3	9	9	9	11	12	11
80 to 93 Feet	6	6	€	€	6	_6	5	5	5	6	5	5	8	8	3
90 to 100 Feet	4	3	4	4	4	4	3	3	3	4	3	3	6	4	5
above 100 Feet	34	13	23	33	• 3	23	45	17	31	32	11	21	27	10	:8
Hean height Feet	95	67	81	93	_66	80	111	73	92	92	64	78	86	64	75

PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit din	day nit din	day nit din	day nit den	day nit di
% occur EL&SB dcts	2	3	3	1	2
% occur 2+ EL dcts	5	11	3	1	7
AVG station N	378	368	384	386	373
AVG station -N/Kft	19	17	21	21	17
AVG sfc wind Kts	14 14 14	15 14 14	11 10 11	14 13 13	18 17 17

Specified location:

11 40 N 92 43 E Radiosonde source : 43333 11 40 N 92 43 E

(*) INDICATES INSUFFICIENT DATA

Radiosonde station height: 259 Feet 15 80 H 95 00 E Surface obs source: MS63

DEDCENT OCCUPRENCE OF ENGRACES CHREACE_TO_CUPEACE DATAD/ECM COM DANCES.

PERCENT OCCUP	PENLE UP EN	<u> </u>	.Eh :	UFFF	11.2-	0-30	<u> </u>		ישמעו	250	COM	RITH	<u> </u>		
FREQUENC	Y YE	RRLY	,	Jf	M-HE	ìR	AF	R-JU	Ħ	J	JL-SE	P	Ċ	CT-DE	EC
<u> </u>	day	nit	d&n	day	nit	d&n	day	712	d&n	da ₋ ,	ni.	dån	day	nit	ds n
100 HHz	1	1	1	1	9	1	_ 2	2	2	1		1	1	9	0
1 GHz	32	18	25	42	21	32	31	29	30	18	ક	13	36	15	26
3 GHz	49	24	32	51	28	40	38	35	37	25	12	18	46	23	35
6 GHz	71	58	64	74	61	67	70	65	67	62	49	56	76	58	67
10 GHz	89	85	87	89	86	88	88	86	87	89	96	87	90	83	87
20 GHz	95	93	94	96	93	94	94	94	94	95	94	94	95	92	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL	Y	3	AN-M	R.	AI	PR-J	JN	J	UL-SI	EP	00	CT-DI	EC
L	day	nit	dŧn	day	nit	d&n	day	nit	d&n	day	nit	dan	day	กาะ	d∜n
Percent occurrence	8	4	6	12	3	8	7	9	8	6	2	4	7	2	<u>5</u> -
AYG thickness Kft			.52	l		. 43	i		.73			.77	1		. 14
AVG trap freq GHz			1.1	i		1.3			.28	!		.46	1		2.5
RVG lur grd -N/Kft			148			142			125			125			200

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	J	AH-M	R R	- AI	PR-JI	JH -	31	JL -SI	EP	Ō	CT-D	EC
	day	nıt	ďěn	day	nıt	din	day	nit	d&n	day	n11	dtn	day	nit	dt -
Percent occurrence	16	9	9	16	14	15	10	13	12	5	3	4	8	- 5	7
AVG top ht Kft			7.8			4.5			9.8			11			6.4
AVG thickness Kft			.77	i .		.62	i		. 57			1.0			.98
AVG trap freq GHz			.28			.19			.23			.51			. 17
AVG lyr grd -N/Kft			82	ĺ		€1			67	ĺ		131	1		76
AVG lyr base Kft			7.4	1		4.0	ł		8.7			11	ĺ		5.8

SUMPARATION BUILT MISTOCRAM IN REPORT OCCUPRENCE.

EVNFUKNI														_			
PERCENT	900	URREHCE	Y	EARL'	r	Ji	AN-M	AR	A	R-J	Jh	J	JL-SE	P	00	CT-DE	EC
			dau	nit	d&n	day	nit	din	day	nit	den	day	nit	den	day	nit	dtn
0 to	16	Feet	2	2	2	1	1	1	2	2	2	3	- 2		3	3	3
18 to	20	Feet	3	5	4	3	5	4	3	4	4	3	4	4	3	6	4
20 10	30	Feet	6	8	7	7	8	7	6	9	3	ϵ	8	7	5	9	7
39 to	46	Feet	8	11	9	8	11	9	8	9	8	16	14	12	5	10	8
40 10	50	Feet	12	17	15	9	14	12	11	14	13	17	24	21	10	16	13
50 to	60	Feet	13	17	15	10	15	13	14	15	15	17	20	18	12	17	14
60 to	79	Feet	11	11	11	8	10	9	12	11	12	13	13	13	10	10	10
78 to	80	Fee:	8	7	7	7	8	7	7	7	7	9	5	7	9	7	8
80 to	90	Feet	5	4	4	5	4	4	5	3	4	4	3	4	6	5	5
90 to	100	Feet	3	2	3	4	2	3	3	2	2	2	1	2	4	3	
≥bove	100	Feet	29	16	22	38	20	29	27	24	25	14	€	10	35	15	25
Hean h	eigh	· Feet	87	68	78	189	75	87	85	80	82	69	53	61	95	66	91

PARAMETEP	YEARL	Υ	JAN-M	AR	APR-J	UH	Ji	L-SEP	OC	T-DEC
	day nit	den	day nit	dan	day nit	d&n	day	nit dån	day	nit dên
% occur EL&SB dcts		8		1		- 0		0		 5
% occur 2+ EL dcts		1	1	3	ì	0	l	9	ļ	9
AVG station N		379	i	371	l	384	l	382	1	378
AVG station -N/Kft		19		19		19	ŧ	19		18
AVG sfc wind Kts	10 9.4	10	7.2 7.1	7.2	18 9.1	9.4	13	13 13	10	8.5 4.1

HISTORICAL PROPAGATION CONDITIONS SUMMAP" IREPS REV 2.1

Specified location: 13 00 N 80 10 E Radiosonde source : 43279 13 00 N 80 10 E (*) INDICATES INSUFFICIENT DATA

Radiosonde station height: 52 Feet Surface obs source: MS64 15 88 N 85 88 E

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE PARAPLESM COM PANCES:

PERCENT OCCORRENCE	<u> </u>	terrane,		SURF	nce-	10-3	20 C CI		nune.	C 311	CON	to the same	352.		
FREQUENCY	Y	EARL'	Υ	J	AN-M	RR	ลเ	PR-JI	UN	J	JL-\$1	EP	01	CT-DI	EC
	day	nit	d&n	day	nit	d&n	day	nit	dan	day	nit	dŁn	day	nis	dtn
100 MHz	2	3	2	3	4	3	3	3	3	1	2	1	2	2	
1 GHz	42	22	32	54	24	39	43	22	33	26	18	22	47	24	25
j 3 GHz	53	33	43	63	33	48	55	33	44	35	28	31	58	36	47
6 GHz	78	66	72	82	62	72	89	69	75	69	65	67	81	70	76
10 GHz	91	88	90	91	86	88	92	89	91	89	85	89	93	90	91
20 GHz	95	95	95	95	94	94	96	95	96	94	95	95	96	96	9€

CHOCOCE DOCED DUCT CHEMODY.

SUPPRIE BROED DULL :	SUMM	nrı.													
PARAMETER	Y	EARL	Y	J	AN-M	AR	A	PR-JI	UH _	JI	JL-SE	P	٥	CT-DI	EC
	day	nıt	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	16	20	18	20	21	21	22	22	22	6	22	14	14	16	15
AVG thickness Kft	1		. 32			. 50	i		. 27			. 14			.40
AVG trap freq GHz	ł		1.0	!		.53	İ		.82	ļ		1.8			.88
AVG lyr grd -N/Kft	1	_	157			152	l		155	Ì		149			172

PARAMETER	Y	EARL'	Υ	J	AH-M	ar .	AI	PR-J	JH _	J	JL-S!	EP	õ	CT-DI	EC
	day	nıt	d&n	day	<u>_n</u> ;t	d&n	day	nıt	d&n	day	nit	d&n	day	nit	den
Percent occurrence	g.	14	12	15	26	21	5	16	11	6	3	5	10	11	11
AVG top ht Kft			4.8			3.3	į.		4.6	1		6. i	1		5.2
AVG thickness Ift			.67			.72	<u> </u>		.64			.84	! !		. 47
AVG trap freq GHz			.29			.21			23			.27			.44
AVG lyr and -N/Kft	ĺ		66	1		59			62			85	i		59
AVG lyr base Kft			4.4			2.8	l		4.2			5.7	1		4.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCUPRE	CE i Y	EARL	Y	J	AN-M	RR	AF	R-J	JH	J	びレーちに	EP	00	T-DE	£C
	day	nit	dan	day	nit	dån	day	nit	din	dav	n12	dan	day	nit	d&n
0 to 10 Feet	3	3	3	3	_2	3	4	3	3	3	3	3	3	3	3
10 to 20 Feet	2	4	3	[3	6	4	2	4	3	3	3	3	1	3	2
20 to 30 Feet		8	6	5	19	7	5_	8	6	6	7	7	4	7	5
38 to 40 Feet	6	10	8	5	13	9	5	9	7	8	11	9	5	9	7
40 to 50 Feet	9	16	12	6	17	11	9	16	12	13	18	15	7	14	11
50 to 60 Feet	_ 10	16	13	9	16	12	10	16	13	14	17	15	8	14	11
60 to 70 Feet	10	14	12	7	11	9	11	17	14	14	16	15	9	14	11
70 to 80 Feet	8	9	8	7	8	7	9	9	9	8	8	8	8	18	9
80 to 90 Feet	6	5	5	5	4	4	6	5	- 6	5	4	5	7	6	-
90 to 100 Feet	4	3	4	4	3	3	5	3	4	3	2	3	4	1	- 4
above 100 Feet	37	13	25	47	12	29	35	12	24	25	10	17	42	17	3€
Hean height Fee	1 99	65	82	112	62	87	96	65	88	81	62	72	106	72	89

CENEDAL METEOROLOGY SUMMARY.

PARAMETER	YE	RL'	7	J	AN-M	AR	AF	R-JI	JH .	J	JL-SI	P	00	CT-DI	EC
	dayı	ni t	den	day	nit	den	day	nit	din	day	nit	d&n	dav	nıt	d&n
% occur EL&SB dcts			1			2			2			0			0
% occur 2+ EL dcts			1			2			1			0	ŀ		1
AVG station N			376			368			382			378	l		375
AVG station -N/Kft			21			23			22			19	l		19
AUG sfc wind Kts	12	11	11	8.1	8.8	8.0	12	12	12	15	13	14	11	11	11

Specified location:

17 43 N 83 16 E

(*) INDICATES INSUFFICIENT DATA

endended the control of the control

٤

Radiosonde source : 43149 17 43 N 83 16 E Radiosonde station height:

135 Feet

Surface obs source: MS64 15 00 N 85 00 E

PERCENT ACCURRENCE OF ENHANCED SUPERIE-TA-SUPERIE RADAR FSM COM RANGES:

FREQUENCY	Y	EARL	Y	J	RH-M	AR	A)	-R-J	JH .	Jt	JL-Si	P	- 01	CT-PE	EC
<u> </u>	day	nit	d&n	day	nit	d&n	day	nit	dan	day	F: 1 T	d\$n	day	nit	din
100 MHz	3	2	2	6	5	5	3	2	3	9	- 0	0	2	1	1
1 GH=	44	19	32	59	28	44	43	19	31	26	11	18	48	19	34
3 GHz	55	29	42	69	38	54	- 35	29	42	34	18	_26	60	38	45
6 GHz	79	64	72	85	65	75	30	66	73	69	59	64	82	67	75
18 GHz	92	88	98	93	87	90	92	88	98	89	87	88	93	89	91
20 GHz	96	95	95	96	_ 94	95	96	95	95	94	94	94	96	95	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEAR	LY.	J	AH-HA	iR	Ai	R-JI	JH .	Jl	JL-SE	P	00	CT-DE	C
i	day ni	t dan	day	rest	d&n	day	nit	dan	da	nı*	dtr	da_y	กาเ	dån
Percent occurrence	21 1	2 17	37	28	33	20	13	17	4		3	22	- 6	14
AVG thickness Kft		.49	l		.31			.80			. 31	l		.33
AVG trap freq GHz		1.1	Ì		.54	Į		. 55	}		1.9			1.5
AVG lyr and -N/Kft		195	L		183			147			179			274

FIEVATED DUCT SUMMARY:

PARAMETER	77	EARL'	Y	J	AH-M	AR	AF	R-JI	JH	J	JL-SE	Ρ	00	T-DE	C
	day	nit	d&n	day	nit	d&n	day	nit	dan	day	nit	den	da,	nit	dan
Percent occurrence	7	11	9	9	17	13	8	15	12	6	4	5	- 5	7	6
AVG top ht Kft	l		6.6			4.2			5.2			11			5.5
AVG thickness Kft	<u> </u>		.64	L		.61			.87			.61			.49
AVG trap freq GHz			.26			.37			.20			.17	[.30
AVG lyr grd -N/Kft	1		93			59	1		64	1		185	ì		63
AVG lyr base Kft			6.2			3.8			4.6	<u> </u>		11			5.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENC	E Į Y	EARL	Ý	J	A1+-11	aR	AI	PR-JU	JN	J	UL-51	Ρ	01	CT-DE	C
	day	การ	dan	day	nit	dtn	day	nit	dan	da	nit	d&n	day	nit	dt n
6 to 10 Feet	3	3	3	3	2	3	4	3	3	3	3	3	3	3	3
10 to 20 Feet	2	- 4	3	3	6	4	2	4	3	3	3	3	1	3	2
20 to 30 Feet	5	8	5	5	10	7	5	8	6	6	7	7	4	7	5
30 to 40 Feet	- 6	10	- 8	5	13	- 9	5	9	7	8	11	9	5	9	7
48 to 50 Feet	9	16	12	5	17	11	9	16	12	13	18	15	7	14	11
50 to 60 Feet	10	16	13	9	_ 16	_12	10	16	13	14	17	15	8	14	11
60 to 70 Feet	10	14	12	7	11	ė	11	17	14	14	16	15	9	14	11
70 to 80 Feet	8	9	8	7	8	7	9	9	9	8	8	8	8	10	3
80 to 90 Feet	6	- 5	5	5	4	4	6	5	6	5	4	5	7	6	6
90 to 100 Feet	1	3	4	4	3	3	5	3	4	3	2	3	4	4	4
above 100 Feet	37	13	25	47	12	29	35	12	24	25	10	17	42	17	38
Hean height Feet	99	65	82	112	62	87	96	65	89	81	62	72	106	72	É,

PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit den	day nit dan	da nii dtr	da, nit dtr
% occur EL&SB dcts	8	1	0	Ü	1
% occur 2+ EL dcts	1,	1	2	છે.	8
AVG station N	379	369	391	387	367
AVG station -N/Kft	22	23	25	28	19
fVG afc wind Kts	12 11 11	8.1 8.0 2.0	12 12 12	15 13 14	11 11 11

TREPS REV 2.1 HISTÖRICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 19 07 N 72 51 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 43003 19 07 N 72 51 E

Radiosonde station height: 46 Feet

Surface obs source: MS65 15 00 H 75 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM PANGES:

FREQUENCY	TY	EARL'	Y	J	AN-MI	RR	A	PR-J	UH	J.	JL-\$1	EΡ	01	CT-DE	EC
	day	nit	d&n	day	nıt	d&n	day	ni:	_d&n	day	nit	dan	day	111 \$	dan
189 MHz	4	3	3	6	_ 4	5	4	3	3	1	ī	1	4	4	
1 GHz	54	23	39	65	29	47	56	21	39	34	11	23	61	32	47
3 GHz	€5	32	48	74	38	56	68	32	59	46	19	32	70	40	5.5
6 GHz	84	67	75	90	69	80	87	72	80	72	59	66	85	68	76
10 GHz	94	89	91	97	89	93	96	92	94	88	86	87	94	88	91
20 GHz	96	95	96	99	96	97	98	97	97	93	93	93	96	94	95

CUDENCE PACED BUCT CUMMARY.

SURFRICE BRISED DUCT .	OTHER 1.												
PARAMETER	YEARLY	T	JAN-MA	ìR 📄	AI	R−Jl	M	Jı	JL -51	P	0	CT-DI	EC .
	day nit d	in di	<u>ay nit</u>	dan	day	การ	d&n	day	nit	důn	day	nıı	đtn
Percent occurrence	24 20	22 3	31 24	28	32	21	27	12	9	11	21	24	23
AYG thickness Kft	•:	36		.35			.38	i		.34			.38
AVG trap freq GHz		36		.48	İ		1.0	1		1.5			.47
AVG lyr grd -N/Kft	1	51		149			155			149			152

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	7	JI	AN-MI	?R	AF	R-JI	JN	JI	L-SI	EP	00	T-DI	EC
	day	nit	d&n	day	DIE	d&n	day	nit	dan	dav	nit	dtn	day	nit	6:7
Percent occurrence	10	18	14	19	16	13	16	24	20	6	13	10	9	18	14
AVG top ht Kft			5.7	l		3.0			4.3			9.2	l		6.2
AVG thickness I'ft	_		. 57	١		.56			.71			.49	l		. 53
AVG trap freq GHz			.25	Г		.21			.18			.29			. 34
AVG lyr grd -N/Kft			67	ŀ		67			65			73			€1
AVG lyr base Kft			5.3			2.6		_	3.8			8.9	l		5.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT (OCCURRENCE	YE	BRL	1	Ji	AN-MA	ar	RF	R-Ji	jH .	Ju	ルーらき	P	00	T-DE	C
		day	nit	d&n	day	nit	dan	day	nit	dtn	day	nit	dtn	day	nit	d&r.
8 to 1	10 Feet	3	2	2	2	1	1	N	1	2	- 5	4	4	4	2	3
18 to 2	20 Feet	1	5	3	1	6	3	1	3	2	2	5	3	1	6	4
20 to 3	30 Feet	4_	8	- 6	3	8	5	_ 3	6	5	_ 6	8	7	3	8	_ 5
30 to -	40 Feet	5	10	8	4	11	7	4	8	- 6	7	12	10	4	11	8
40 to 5	50 Feet	7	16	11	6	15	10	7	15	11	18	17	:3	7	15	: 1
50 to 6	60 Feet	3	17	12	7	17	12	-8	18	13	چ	_17	13	8	14	11
60 to 7	70 Feet	8	14	11	7	13	10	8	15	12	11	16	13	6	11	- 8
70 to 8	80 Feet	7	10	8	7	9	8	7	12	10	8	9	8	4	9	7
80 to 9	90 Feet	6	4	5	6	4	. 5	7	5	ε	•	5	5	5	3	4
98 to 1	100 Feet	4	2	3	4	2	3	4	3	4	5	2	3	4	2	_ 3
above 1	100 Feet	47	13	30	55	15	35	47	12	30	31	7	19	55	19	37
Hean her	ight Feet	114	66	90	126	67	97	115	68	92	88	57	73	125	73	99

PARAMETER	YEARL	Υ	Ĵi	H-HE	aR .	AF	R-JI	JH	Ji	JL-51	P	01	T-ul	EC
	day nit	dan	day	n11	dan	day	nit	dŧn	day	nit	dan	day	nit	dsn
% occur EL&SB dcts		2	[1			3			1			3
% eccur 2+ EL dcts	ĺ	. 5	ĺ		1			5			0	ĺ		2
RVG station N		368	l		345			382			386			358
AVG station -N/Kft	ĺ	28	l		19			24			20	1		19
AVG sfc wind Kts	11 10	10	7.8	8.0	7.9	11	11	11	15	14	14	8.4	7.5	8.0

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 15 28 N 73 49 E (*) INDICATES INSUFFICIENT DATA Radiosonde source : 43192 15 28 N 73 49 E

Radiosonde station height: 197 Feet

Surface obs source: MS65 15 00 N 75 00 E

PERCENT OCCUPRENCE OF ENHANCER SUPERCE-TO-SUPERCE PARAD ESM COM DANGES:

	OCCURPENCE.							_								
Į FREC	DUENCY	1	EARL'	Y	Ji	1H-H	ar.) AF	PR-JI	UN	31	UL-S	EΡ	04	CT-D!	EC
		dav	nıt	dan	day	nıt	d&n	day	nit	d&n	day	nit	dan	day	nit	dta
100	MHz	2	4	3	4	5	4	1	2	1	*	*	*	2	5	—
1	GHz	57	28	42	63	31	47	59	18	34	*	¥	+	59	35	47
3	GH2	67	38	53	73	43	58	61	27	44	+	*	*	67	44	55
6	GHz	86	71	78	90	72	81	84	70	77	*	¥	*	84	70	77
10	GHz	95	98	92	97	91	94	94	91	93	*	*	*	93	89	91
20	GHz	97	96	96	99	96	97	97	97	97	*	*	¥	95	95	95

SURFACE BASED DUCT SUMMAPY:

PARAMETER	Y	EARL	Y	31	AH-HI	38	AF	R-J	JH	Jŧ	JL-SE	F	00	T-DI	EC
	day	nıt	dên	day	n1:	d\$n	day	nit	dan	day	rit	dŁn	day	nit	dŁn
Percent occurrence	14	21	17	35	40	38	7	11	9	0	9	0	14	31	23
AUG thickness kft			.49	ľ		.36			.45			*			.6?
AVG trap freq GHz			.85			1.2			.76	l I		*			.57
AVG 10r grd -NVKft	L		128	L		109			155	_		*			119

ELEVATED DUCT SUMMAPY:

PARAMETER	Y	EARL	Y	J	AN-M	AR .	A1	it- 9	JH	Jŧ	JL-SI	EP	00	T-DE	:C
	day	nit	den	day	nit	din	day	nit	d‡n	day	711	dtn	day	nit	dŧn
Fercent occurrence	14	20	17	21	33	27	19	24	22	5	11	8	9	13	11
AVG top ht Kft			5.7	l		2.4	i		5.0	İ		9.4			6.1
AVG thickness Kft			. 84			.74			1.5			.72			.41
AVG trap freq GHz			.26			.29			.06			.24			.53
AVG lyr grd -N/Kft	ĺ		65	i		58			74			62	İ		78
AVG lur base ift			5,2	1		1.9	1		4.1	l		8.9	j		5.8

EMAPOPATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PERCENT	OCCI	JPPENCE	Ϋ́	ARL	′	Ji	AH-K	AR	Al	R-J	UN	J,	L-SI	EP	00	7-D5	τ.
L			day	1111	den	day	nit	dân	day	niz	din	day	nit	din	day	nit	dtn
0 to	10	Feet	3	2	2	2	1	1	2	1	2	5	4	4	-4	2	3
10 to	26	Fret	1	5	3	1	6	3	1	3	2	2	5	3	1	6	4
20 10	30	Feet	4	8	5	3	. 8	5	3	6	5	ક	8	7	3	. 8	5
38 to	40	Feet	- 5	10	8	1	11	7	4	8	6	7	12	10	4	11	3
49 to	50	Feet	7	16	11	6	15	18	7	15	11	10	17	13	7	15	11
50 10	60	Feet	8	17	12	۲	17	12	8	18	13	و	17	13	8	14	11
60 10	70	Feet	8	14	11	7	13	10	8	15	12	11	15	13	6	11	
70 10	80	Feet	7	19	8	7	9	8	7	12	10	8	9	8	4	9	7
80 10	90	Feet	6	4	5	6	4	5	7	_ 5	6	6	5	5	5	3	4
98 10	100	Feet	7	2	3	1	2	3	4	3	4	5	Ž	3	4	2	3
àbo…€	166	Feet	47	13	30	55	15	35	47	12	38	31	7	19	55	19	37
Hean he	1 gh1	Feet	114	66	98	126	67	97	115	68	92	88	57	- 73	125	73	44

PARAMETER	YEAPL	Y	Ji	iH-H	₹R	AP.	R-3	HI.	. Ju	L-Si	EP	00	7-D	EC
	day nit	dŧņ	d a ··	011	din	day	717	dŧn	رةك	n11	din	day	018	dån
% occur EL&SB dcts		2	1		5	-		1			0			1
% occur 2+ EL dcts		1	ĺ		2			1			1			3
AVG station H		372	l		363			382			384	i		360
AVG station -N.Kft		22	1		27			28			19			20
BUG sfc wind Fis	11 10	10	7.8	8.0	7.9	11	11	11	15	14	14	8.4	7.5	8.0

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

Specified location: 15 00 N 65 00 E Radiosonde source: 40564 20 40 N 58 54 E (*) INDICATES INSUFFICIENT DATA

Radiosonde station height: 39 Feet Surface obs source: hS66 15 90 N 65 00 E

PECCENT OCCURRENCE	OF E	инан	CED	SURF	ACE-	T0-5	URFA	CE P	ADAR	'ESM	COM	RAN	GES:	_	
FREQUENCY	TY	EARL'	Υ	J	AN-M	RR	Al	PR-JI	JN	J	JL-SI	EP	00	CT-DE	EC
	day	nıt	d&n	day	nit	d&n	day	nit	dan	day	nit	dan	day	nit	din
100 MHz	7	10	9	5	6	5	12	22	17	5	5	5	6	8	7
1 GHz	52	39	46	52	29	40	63	67	65	36	24	30	59	38	49
3 GHz	65	50	57	64	38	51	73	75	74	52	36	44	78	51	60
6 GHz	37	78	82	87	73	80	91	89	98	81	70	75	89	79	84
10 GHz	95	92	94	95	91	93	97	96	96	92	98	91	96	93	94
20 GHz	97	96	97	98	95	97	98	98	98	95	95	95	98	97	97

POKEME BUSED DOCE S	<u>งบทณ</u>	<u> 187:</u>													
PARAMETER	Y	EARL	Y	31	ลห-หเ	AR	A	PR-31	u t t	J	JL-S!	EP	0	CT-DI	EC
	day	nıt	d&n	day	nit	dan	day	กาเ	dån	day	nit	dtn	day	nit	dbn
Percent occurrence	28	40	34	21	23	22	36	68	52	26	36	28	28	38	33
RYG thickness Kft	ĺ		.74			.66	ļ		.93	l		.82	İ		.56
AVG trap freq GHz	l		.31			. 26	1		. 18	1		. 47	l		.33
AVG lyr grd -N/Kft	L		133	L		138			133			131			129

ELEVATED DUCT SUMMA	RY:														
PARAMETER	Y	EARL'	Y	J	AN-M	AK:	Al	PR-JI	אנו	J	JL-51	P	O O	CT-DI	EC
	day	nıt	d&n	day	nıt	d&n	day	nit	dan	day	nii	đěn	day	nit	dan
Percent occurrence	41	-45	43	48	50	49	36	30	33	39	53	46	40	46	43
AVG top ht Kft	i		2.6	l		3.1	1		2.3	l		2.2	1		3.9
AVG thickness Kft			.87			.73	L		1.1	L		.89	Ĺ	_	.75
AVG trap freq GHz			.13			.16	1		.68			.10			.17
AVG lyr grd -H/Kft	1		65	1		67	ŀ		66	ĺ		65	i		63
AVG lyr base Kft			2.1	<u>L</u> _		2.6	Ĺ		1.6			1.6			2.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	Y	EARL'	Y	J	<u>สม</u> ห–หเ	RF.	AF	R-JI	JH	J	JL-58	EP	01	T-DE	ί.
	day	nit	d&n	day	7:1 t	d&n	day	nit	dån	dav	n11	dan	day	nit	dan
0 to 10 Feet	3	2	2	2	1	2	2	ī	2	5	4	4	2	1	2
10 to 20 Feet	1	4	3	2	4	3	:	4	3	2	3	3	1	4	2
20 to 30 Feet	3	6	5	3	6	. 5	3	6	4	4	. 7	- 5	3	- 5	_ 5
38 to 48 Feet	4	9	7	4	8	- 6	4	9	5	5	11	8	3	8	_ :
40 to 50 Feet	6	15	11	6	15	11	5	14	10	9	16	12	6	15	18
50 to 60 Feet	10	:8	14	10	18	14	_ 8	17	13	11	18	15	و	19	13
60 to 70 Feet	111	15	13	10	15	12	10	15	13	13	15	14	9	13	11
70 to 80 Feet	10	11	:0	9	11	10	9	12	16	12	11	12	8	11	9
80 to 90 Feet	8	- 6	7	-8	6	7	. 8	_ 7	8	9	- 5	7	7	6	6
90 to 100 Feet	6	- 4	5	6	3	4	6	4	5	-6	4	5	5	5	-5
above 100 Feet	39	18	24	41	12	27	44	11	27	23	4	14	47	13	36
Hean height Feet	103	64	84	197	6€	87	116	66	88	81	56	69	114	68	91

PARAMETER	Y	ARL'	Υ	31	ลห-หเ	RR	AF	R-JI	111	34	JL-SI	EP	- 00	CT-Di	ĘĆ
	day	กาะ	d&n	day	nit	d&n	day	nit	din	day	nit	d&n	dav	nit	do-
% occur EL&SB dcts			5			4			5			6	i -		5
% occur 2+ EL dcts			4			4	l		3	ļ		5	l		4
AVG station H			362	ļ		348	l		373	ļ		370	i		356
AVG station -N/Kft			25			20			30			27			23
AVG sfc wind Kis	13	13	13	10	10	10	14	13	14	20	19	20	10	10	10

IREPS REV 2.1

Specified location:

(*) INDICATES INSUFFICIENT DATA 15 00 N 55 00 E

Radiosonde source : 40564 20 40 N 58 54 E Radiosonde station height: 39 Feet

Surface obs source: MS67 15 00 N 55 00 E

PERCENT OCCUPRENCE OF ENHANCED SIREACE-TO-SURFACE RADGR-ESM/COM RANGES:

FREQUENCY	Y	EARL	Υ	Jí	N-MA	R.	Al	PR-JI	ÚΝ	Ji	JL-SI	P	0	CT-D!	EC
i	day	nit	din	day	nit	d&n	day	nit	d£n	day	nit	<u>d&n</u>	day	nit	đEn
100 HHz	7	16	9	5	6	- 5	12	22	17	5	5	5	6	8	7
1 GHz	59	39	44	56	29	42	58	65	62	29	24	26	58	38	48
3 GHz	59	48	54	65	38	52	6€	73	70	38	31	34	68	49	58
6 GHz	78	69	74	86	68	77	84	85	84	58	59	54	86	73	88
10 GHz	89	85	87	94	88	91	92	94	93	75	72	73	94	89	91
20 GHz	92	91	92	97	93	95	94	97	95	_81	82	82	97	94	95

PARAMETER	71	ARL'	7	J	H-HF	AR .	RE	R-JI	JH	J	JL-\$E	EP	00	[T - DI	C
	đay	nıt	d&n	day	nıt	d&n	day	nit	d&n	day	nit	dŁn	day	nit	dån
Percent occurrence	28	40	34	21	23	22	36	68	52	26	39	28	28	38	33
AYG thickness Kft			.74	į		.66			.93			.82			.56
AVG trap freg GHz			.31	1		.26			. 18			. 47			.33
AVS lyr grd -N/Fft			133			138			133			131			129

PARAMETER	Y	EARL'	Y	J	AN-MA	AR .	AI	PR-J1	jH .	31	JL-Si	EP	00	CT-DI	EC
	day	nit	dån	day	211	dŧn	day	nıt	dŁn	day	nit	din	day	กเเ	dt -
Percent occurrence	41	45	43	48	50	49	36	30	33	39	5 3	46	40	46	43
AVG top ht Kft			2.6			3.1	l		2.3	1		2.2	l		3.8
AVG thickness Kft	_		.87			.73	l		1.1	L		.89			. 75
AVG trap freq GHz			.13			.16			.08			.10			.17
AVG lyr grd -N/Kft	•		65	ļ		67	i		6€			65			63
AVG lun base Kft			2.1			2.6	ı		1.6	i		1.6			2.5

S

EVAPOPATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PERCENT	OCCURRENCE	Y	EAPL	Y	31	AN-M	RR	A:	PR-JI	JN	J	UL-SI	EΡ	00	CT-DE	C
		Jay	nit	d&n	day	011	dtn	day	nıt	d&n	day	nit	den	day	nıt	dùn
8 to	10 Feet	7	5	7	2	2	2	5	4	5	18	17	18	3	2	3
10 to	20 Feet	4	8	6	2	7	4	4	7	5	7	10	8	3	8	5
20 10	38 Feet	5	9	7	_4	7	5	4	9	7	9	14	11	- 4	- 8	6
30 to	48 Feet	6	11	9	4	10	7	5	11	8	11	15	13	4	9	7
40 10	50 Feet	8	15	12	7	16	11	7	15	11	12	15	14	6	15	11
50 to	6θ Feet_	9	15	12	9	18	13	9	16	13	10	12	11	8	15	11
68 to	70 Feet	9	11	10	9	13	11	9	13	11	5	Ġ,	7	9	13	11
78 to	80 Feet	7	8	7	7	9	8	8	9	è	6	4	5	3	9	ક
80 10	90 Feet	<u> </u>	4	<u>5</u>	6	5	5	6	5	5	4	2	_3	6	ક	6
90 to	100 Feet	4		3	4	3	4	5	2	- 4	2	1	2	4	4	4
above	100 Feet	36	9	22	46	12	29	37	9	23	13	4	9	46	12	29
Hean ne	ight Feet	44	56	75	113	63	88	99	59	79	55	39	47	111	64	52

PARAMETER	YE	ARL'	Y	- 5	AH-M	AR	AF	<u> </u>	324		JL-31	EP	เว้	T-D9	EC
	dav	211	den	dav	nit	dtn	dav	n:	dtn	dav	nit	dtn	day	n11	dtn
% occur EL&SB dcts			5		-	4			5			ć	f		5
% occur 2+ EL dcts			4	ĺ		4			3			5			4
AVG station H			362	•		348			373			370	ļ		356
AVG station -H/Kft			25			28			30			5.5			23
AVG sfc wind Fis	14	13	14	10	18	19	14	14	14	21	21	21	10	19	10

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 13 22 N 45 03 E (*) INDICATES INSUFFICIENT BATA

Radiosonde source: 40597 13 22 N 45 83 E Radiosonde station height: 10 Feet

Surface obs source: MS68 15 00 H 45 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE PADAR/ESH/COM RANGES:

PERCENT OCCURRENCE	UF E	MRNN.	LED.	SURF	MLE-	<u> 10-31</u>	UKPN	LE PI	TURK	, E 2U	,,,	KUN	SE3.		
FREQUENCY	Ÿ	ERRL	Y	J	AH-HI	FR	R!	PR-JI	JN	Ji	UL-S	EP	0	CT-DI	EC
	day	nit	dŁn	day	nit	din	day	nıt	dkn	day	nit	<u>d</u> an	day	nit	_d&n
100 MHz	3	5	4	2	2	_ 2	8	8	8	2	6	4	2	4	3
1 GHz	69	37	49	49	17	33	72	49	69	66	51	58	55	31	43
3 GHz	78	48	59	61	27	_ 44	79	_59	69	72	61	67	66	44	_ 55
6 GHz	86	73	79	83	61	72	90	77	83	83	77	89	89	75	82
10 GHz	93	88	91	92	86	89	95	89	92	89	89	89	95	98	93
20 GKz	95	94	95	95	93	94	97	93	95	92	94	93	98	95	97

CHIPCOCE PASES BUILT SHIMMAP.

PARAMETER	Y	EARL'	Y	J	AN-M	7R	-AI	PJ1	אט	J	JL-SI	ΕP	00	CT-DI	ε
	day	nit	₫ Ł n	day	nit	d&n	day	nit	dån	day	nit	dan	day	nit	dŧn
Percent occurrence	21	31	26	16	13	15	43	45	44	14	39	27	11	26	19
AYG thickness Kft	i		. 48			.40			.61	l		.49			.42
AVG trap freq GHz	į		.73	ŀ		1.1			. 49			.69	İ		.61
AVG lur gra -N/Kft	_		143			119	L		119	}		118			219

ELEVATED DUCT SUMMARY:

ELEANIED DOCI 209WH	**:				
PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit dan	day nit din	day nit dan	day_nit_dtn
Percent occurrence	31 34 33	42 56 49	40 31 36	11 19 15	31 30 31
AVG top ht Kft	3.0	3.6	2.3	3.4	2.8
AVG thickness Kft	.62	.62	75	.60	.52
AVG trap freq GHz	.26	.26	.14	.38	.28
AVG lyr grd -N/Kft	62	62	68	56	61
AVG lyr base Kft	2.6	3.2	1.8	2.9	2.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT C	CCURRENCE	Y	ARL'	Y	J	H-HF	1R	AI	PR-J	JH	J	JL-\$1	EP	00	T-DE	C
Ĺ		day	nit	d&n	day	nit	dån	day	nit	dŁn	day	กาเ	d&n	day	nit_	d&r.
8 to 1	0 Feet	4	4	4	4	3	3	4	4	4	8	- 6	7	2	2	2
18 :0 2	0 Feet	2	5	3	2	5	3	2	7	4	2	4	3	2	5	3
20 to 3	8 Feet	3	7	5	3	8	6	_3	8	_ 5	3	7	5	2	7	5
30 to 4	8 Feet	3	9	6	4	10	7	3	9	6	3	8	5	3	- 8	- 5
40 to 5	0 Feet	5	12	9	7	17	12	5	11	8	4	10	7	5	11	8
50 to 6	8 Feet	- 6	13	18	8	17	12	6	_12	و	4	10	7	7	15	11
60 to 7	'O Feet	6	10	8	8	12	10	5	- 8	7	4	7	5	8	13	11
70 10 8	0 Feet	7	7	7	8	9	8	6	6	6	4	5	4	9	11	10
88 to 9	0 Feet	5	5	_5	6	5	5	4	3	4	. 3	4	4	6	7	6
90 to 1	88 Feet	4	3	4	5	3	4	3	3	3	3	3	3	6	4	5
above 1	08 Feet	55	23	39	45	12	28	60	27	43	63	37	56	52	18	35
Hean her	ght Feet	122	79	100	108	63	86	131	_ 82	187	133	96	114	117	73	95

PARAMETEP	YEARLY		Ji	H-H	R.	APR-	-วับห	JUL-S	EP	OCT-	DEC
	day nit	d&n	day	การ	din	day n	t dan	day nit	dan	day ni	t_d&n
% occur EL&SB dcts		4	1		2		7		3		3
% occur 2+ EL dcts		5	l		7		9		1		2
fiVG station N		371	ı		360		386		375		363
AVG station -N/Kft		22	ĺ		19		27		28		20
AVG sfc wind rts	11 10	10	12	11_	12	10 8.	7 9.4	10 8.9	9.5	12 10	3_11_

19 34 H 37 13 E (*) INDICATES INSUFFICIENT DATA Specified location: Radiosonde source : 62641 19 34 N 37 13 E Radiosonde station height: 10 Feet

Surface obs source: MS105 25 00 N 35 00 E

DESCRIPT ACCHIDENCE OF ENHANCED SUBFACE_TO_SUBFACE DATAR FSM COM PANCES:

•	EMPER!	ULLUKKENLE	טר בו	MUUM	LEL:	SURF	n. 5-	10-3	UK F N	<u>. E F</u>	nunr	E 217	CUM	BOM	3E 3.		
ſ	FRE	RUENCY	Y	EARL	Y	Ji	AN-H	AR	- AI	PR-J	N	Jŧ	UL-SI	EP	90	CT-DI	EC
1			day	nit	dan	day	nıt	d£n	day	nit	dan	day	nit	ರಕಿಗ	day	nit	den
Т	100	MHz	. 6	9	3	3	9	2	10	9	5	6	0	3	6	- 6	3
-	1	GHz	59	26	43	42	17	39	75	35	55	79	37	53	59	16	33
- 1	3	GHz	71	37	54	58	28	43	82	44	63	81	45	63	64	32	48
Ì	6	GHz	83	70	79	83	70	76	92	69	80	92	70	81	87	72	79
ı	10	GHz	95	88	92	93	89	91	96	37	31	96	89	92	95	89	92
-	28	GHz	97	94	96	95	94	95	98	95	96	97	93	95	98	94	96

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SUPPRIE BUSED BOCI :	<u>sunni</u>	1K 1 .													
PARAMETER	Y	ARL'	r	J	AN-M	RR	A	-R-J	HU	3	JL-S	EP	00	CT-DI	EC
	day	nit	den	day	nit	d&n	day	nıt	d&n	day	nit	dŁn	day	nit	dt n
Percent occurrence	33	0	17	13	. 6	7	47	0	24	50	8	25	23	в	12
AVG thickness Kft			.41	i		. 29	l		.46			. 15	ĺ		.73
AVG trap freq GHz			. 48	l		. 26			.37			1.1			.22
AVG lyn grd -H/Kft			246	<u>.</u>		547			154			135			147

FIEVATED DUCT SUMMARY:

PARAMETER	7	EARL'	Ý	- 31	ลห-หเ	BR	AF	R-J	אט	31	JL-SI	EP	0:	CT-D	EC
	day	nıt	đần	day	nit	den	day	nit	din	đay	n1t_	d&n	day	P15	d&r
Percent occurrence	7	0	3	9	0	5	5	8	3	0	8	ð	12	0	6
AVG top ht Kft			4.3			3.5	i		3.3			+	ĺ		6.3
AVG thickness Kft			.80			.48			.72			*	L		1.2
AVG trap freq GHz			.66			.72			.16			*			1.1
AVG lyr grd -N/Kft]		79	1		56			72			*	ł		189
AVG lyr bask ift	L _		3.9			3.1	l		2.8				İ		5.7

EVAPORATION DUCT_HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	GCCI	IRRENCE	YI	ARL'		3	AN-M	AR T	A.	PR-J	UN	31	UL-S!	EP -	_0	CT-DI	EC
			dav	ntt	dln	day	nit	dşn	day	nit	dŁn	da	n11	dt n	day	nit	d* n
8 to	10	Feet	3	- 2	3	3	3	3	3	3	3	4		4	1	1	1
10 to	20	Feet	2	4	3	3	3	3	1	3	2	2	3	3	1	5	3
20 tc	30	Feet	3	6	4	3	5	4	3	8	6	. 1	5	3	4	6	5
30 to	40	Feet	4	8	6	5	7	É	3	- 9	6	2	8	5	5	6	6
40 10	50	Feet	5	10	8	7	11	9	5	9	7	4	11	7	6	10	8
50 13	50	Feet	5	11	9	8	14	11	5	10	7	4	. 9	7	8	12	10
60 to	70	Feet	8	12	10	10	15	13	5	8	7	6	8	7	11	15	13
78 to	80	Feet	8	10	9	10	13	11	6	7	6	6	8	7	10	13	12
80 to	98	Feet	7	6	- 6	9	7	- 8	3	5	4	6	4	. 5	9	9	9
90 to	100	Feet	- 6	5	5	8	5	6	4	4	4	5	4	4	7	7	7
above	108	Feet	49	26	37	35	17	26	61	35	48	60	37	48	37	16	27
Hean he	ght	Feet	11?	84	99	96	73	84	131	94	112	129	96	112	98	72	65

PARAMETEP	Y	ARL'	Ý.	J	au-M	AR .	AF	R-J	JH.	J	JL-SI	P	00	T-Di	ĒĊ
	day	กเเ	dŁn	day	211	dŁn							day	การ	dtn
% occur EL&SB dcts			1			0			2			0			5
% occur 2+ EL dcts			0	i		0			0			6			Θ
AVG station N			359			35€			335			373			370
AVG station -N/Kft			21			18	ŀ		21			25			20
AVG sfc wind Kts	13	11	12	14	12	13	13	11	12	13	10	12	_13	11	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMAPY

Specified location: Radiosonde source : 61415 20 55 N 17 01 N

20 55 N 17 01 W (*) INDICATES INSUFFICIENT DATA

Radiosonde station height: 16 Feet Surface obs source: MS74 25 00 N 15 00 N

PERCENT (OCCURRENCE	OF EI	<u>чнян</u>	CED	SURF	RCE-	10-5	URFRI	CE PI	HUHR	ZESM	<u> COM</u>	RHN	LES:		
FRE	QUENCY	Y	ERRL	Y	J	H-4H	AR	A	PR-J	UN	J	UL-SI	EP	0	CT-DI	EC
L		day	nit	_d&n	day	nit	den	day	nit	dan	day	nit	d&n	day	nit	dtn
180	MHz	7	2	4	5	8	2	7	1	4	8	8	- 8	ε	Ð	3
1	GH2	43	17	39	38	9	24	44	12	28	42	33	38	50	14	32
3	GHz	53	22	37	47	13	38	52	15	34	51	41	46	61	_19	40
6	GH≥	73	44	58	71	38	55	72	36	54	68	55	61	81	46	64
18	GHZ	89	74	81	89	74	81	89	71	98	84	76	88	92	76	84
28	GHz	93	87	98	94	88	91	93	86	98	98	87	88	96	87	92

SURFACE BASED DUCT SUMMARY:

JORI HCL BUSED DOC	701111111111111111111111111111111111111													
PARAMETER	YEARL'	*	J	H-HE	RR	AF	R-JI	JH	J	UL-S!	EP	01	CT-DI	EC
<u> </u>	day nit	dan	day	nit	din	day	nit	d&n	day	nit	d&n	day	nit	den
Percent occurrence	32 11	21	24	0	12	31	6	19	36	37	37	37	0	15
RVG thickness Kft		.47	1		.42			-48	ĺ		.53			.43
AVG trap freq GHz		.39	•		. 40	ĺ		.29	Ī		. 31	ĺ		.54
AVG lyr and -N/Kft		85	<u>!</u>		98	i		79			79			90

PARAMETER	YI	EARL'	7	J	ลห-ห	AR	AI	R-J	אט	Ĵ,	JL-SI	EP	00	T-DI	EC
	day	nit	dŁn	day	nit	d&n	day	nit	d&n	day	nit	dan	day	nıt	dån
Percent occurrence	24	9	16	24	8	12	26	8	17	33	28	31	11	e	- 5
AVG top ht Kft			2.3	i		2.5	Į.		1.6			1.8	i		3.2
AVG thickness Kft			.56		_	.47	i		.59	<u> </u>		.78	L		.39
AVG trap freq GHz			.36			.42			.28			.17			-56
AVG lyr grd -N/Kft			57	i		56	i		56	ŀ		60	l		58
AVG lyr base Kft			1.9	ĺ		2.1			1.2	ĺ		1.2	[2.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCL	IRRENCE	YE	BRL	7	Ji	an-m	ar .	AI	R-J	JN	7,	JL - SI	P	01	T-DE	C
Ĺ		day	nit	d&n	day	nit	din	day	การ	d&n	dav	nit	d&n	day	nit	dŁn
0 to 18	Feet	5	- 6	6	3	4	4	5	6	6	9	10	10	3	-5	4
10 to 20	Feet	4	9	7	4	8	6	5	8	6	6	11	8	4	7	5
20 to 30	Feet	7	15	11	7	14	10	7	16	12	10	17	14	_ 5	12	خ
38 to 48	Feet	10	17	14	10	18	14	11	19	13	12	18	15	8	14	11
48 to 50	Feet	12	17	15	14	18	16	13	18	16	13	15	14	10	16	:3
50 to 60	Feet	12	12	12	14	13	13	12	12	12	10	10	10	11	_:3	12
60 to 70	Feet	9	7	8	19	7	9	9	6	8	8	6	7	9	9	5
70 to 80	Feet	7	4	6	7	4	6	6	4	5	6	4	5	8	5	7
88 to 98	Feet	4	2	3	_4	2	3	4	2	3	4	2	3	5_	3	- 4
90 to 100	Feet	3	1	2	3	1	2	3	1	2	3	1	2	4	2	3
above 100	Feet	26	9	18	25	9	17	25	7	16	20	6	13	34	14	24
Hean height	Feet	88	51	66	81	53	67	79	48	63	_69	43	56	_94	61	77

PARAMETER	YE	ARL	Y	J!	in-n	AR	AF	R-J	UN	10	JL-5	EP	01	.T-D	: T
	day	nit	dan	day	nış	din	day	nit	d t n	day	nit	din	day	nit	dan
% occur EL&SB dcts			3			4			1	-		5			3
% occur 2+ EL dcts			1	i		1			1			1			U
AVG station N			343			331	ĺ		343			359			340
AVG station -N/Kft			21	l		18	İ		23			25	l		19
AVG sfc wind Kts	14	13	14	14	13	14	15	14	15	16	15	15	12	11	12

Specified location:

28 28 N 16 15 H Radiosonde source : 60020 28 28 N 16 15 N

(*) INDICATES INSUFFICIENT DATA

Radiosonde station height: 118 Feet

Surface obs source: MS74 25 00 H 13 00 H

PERCENT OCCUPPENCE OF ENHANCED SURFACE-TO-SURFACE RADAR-ESM-COM RANGES:

FREQUENCY		EARL'			AN-MI			R-J	UN		JL-S			CT-DI	EC
	day	nit	dån	day	nit	dŧn	day	nit	dån	day	nıt	dtn	day	nit	den
100 MHz	1	1	1	9	1	1	1	1		1	1	1	0	0	9
1 GHz	28	12	20	26	13	29	28	9	18	22	11	17	35	14	25
3 GHz	35	16	26	34	17	26	35	12	23	29	14	21	44	28	32
6 GHz	62	39	50	64	41	52	61	34	48	52	33	42	71	47	59
10 GHz	84	71	77	86	75	81	84	78	77	76	64	70	88	76	85
20 GHz	91	85	88	93	88	90	91	86	88	85	89	83	94	87	51

SUPERCE RASED DUCT SUMMARY:

PARAMETER	Y	EARL	r	J	AN-M	AR	A	PR-Ji	HU	J	JL-Si	EP	0:	CT-D	EC
	day	nıt	den	day	mit	d&n	day	nit	d&n	day	nit	dŁn	day	nit	d&n
Percent occurrence	3	4	4	3	6	5	4	3	4	4	6	5	2	1	2
AYG thickness Kft	l		.39	ĺ		.38	İ		.37	ì		. 42	i		. 40
AVG trap freg GHz			.41	i		.55	l		.37			.32			.38
AVG lyr and -N/Kft			132	1		159	l		125			119			124

PARAMETER	Y	ARL'	7	31	AN-MI	RR	AI	R-J	หบ	j J	JL-Si	EP	9	CT-DI	EC
	day	nit	den	day	nit	d&n	day	nit	dîn	day	nit	dan	day	กาเ	den
Percent occurrence	6	7	7	5	8	7	4	8	6	9	6	8	7	7	?
AVG top ht Kft	i		4.2	l		4.5	}		4.6	i		3.9			3.7
AVG thickness Kft	l		. 49	L		.52			. 40	L		.48			. 57
AVG trap freq GHz			.63	Г		1.1			.67			. 46			.31
AVG lyn gnd -N/Kft			68	l		69	i		54	l		59			59
RVG lyr base Kft	!		3.8	l		4.2	i		4.3	l		3.5			3.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCC		_	ARL		_	AN-HI			R-JI	UN	Ji	JL-SI	EP .	00	T-DE	C
				-							day	nıı	děn	day	nit	dt a
0 to 10	Feet	5	6	6	3	4	4	5	6	6	9	10	10	3	5	4
10 to 20	Feet	4	è	7	4	8	6	5	8	6	6	11	8	4	7	5
20 to 30	Feet	7	15	11	. 7	14	10	7	16	12	10	17	14	5	12	8
30 10 40	Feet	18	17	14	10	18	14	11	19	15	12	18	15	8	14	11
40 to 50	Feet	12	17	15	14	18	16	13	18	16	13	15	14	10	16	13
50 10 60	Feet	12	12	12	14	13	13	12	12	12	10	10	10	11	13	12
60 to 70	Feet	9	7	8	10	7	9	9	6	8	8	5	7	9	9	9
70 to 80	Feet	7	4	6	7	4	6	6	4	5	6	4	5	8	5	7
80 10 90	Feet	4	2	3	_4	2	3	4	2	3	4	2	3	5	3	4
98 to 186	Feet	3	1	2	3	1	2	3	1	2	3	1	2	4	2	3
above 100	3 Feet	26	9	18	25	9	17	25	7	16	20	6	13	34	14	24
Hean heigh	nt Feet	86	51	66	81	53	67	79	48	63	59	43	56	94	€1	77

PAPAMETER	Y	HRL	Y	J	RN-M	AR	AF	R-J	JH.	JU	IL-SI	Eo	00	CT-DI	ĒC
	day	การ	dan	day	011	dŧn	day	nit	dtn	day	n:t	din	day	n13	den
. occur EL&SB dcts			8			8			6			0			Ð
% occur 2+ EL dcts	İ		9			6			0	1		e			1
AVG station N			334			328			339	i		340			336
AVG station -N/Kft	ł		12	1		12			12	!		14			12
AVG sfc wind kis	14	13	14	14	13	14	15	14	15	16	15	15	12	11	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 25 00 H 25 00 H (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 61415 20 55 N 17 01 H Radiosonde station height: 16 Feet

Surface obs source: MS75 25 00 H 25 00 H

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESH/COM RANGES:

CHCCIII OCCONNEITOE	<u> </u>		<u></u>	JUNI .	<u> </u>		OK. 1 11.	<u> </u>	I I WITTE		40,,	******	<u></u>		
FREQUENCY	7	EARL	Υ	J	คพ-พ	BR	A.	PR-J	UH	J	<u> </u>	EP_	-0	CT-DI	EC
	Jeay	nit	_d&n	day	nit	dŁn	day	nit	dŁn	day	nit	den	day	nit	dtn
100 MHz	7	2	4	5	. 9	2	7	1	4	8	8	-8	6	ß	3
1 GHz	45	15	38	37	5	21	49	13	31	51	34	42	43	7	25
3 GHz	57	22	39	49	10	29	69	19	48	61	43	52	58	14	35
6 GHz	83	58	71	77	46	62	84	58	71	85	71	78	85	59	72
10 GHz	94	87	91	92	82	87	94	88	91	95	91	93	96	88	92
20 GHz	Í 97	95	96	96	92	94	97	97	97	97	96	96	98	94	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit d&n	day nit den	day nit dan	day nit dan	day nit dan
Percent occurrence	32 11 21	24 0 12	31 6 19	36 37 37	37 0 19
AYG thickness Kft	.47	.42	.48	.53	.43
AVG trap freq GHz	.39	.48	.29	.31	.54
AVG lyr grd -N/Kft	85	98	79	79	. 93

PARAMETER	YI	EARL'	*	1	AH-M	AR	AI	PR-JI	UH	J	UL-S!	P	0	CT-DI	EC
	day	nit	din	day	กเเ	d&n	dav	nit	₫&n	day	nit	dan	day	n13	dtn
Percent occurrence	24	- 9	16	24	e	12	26	8	17	33	28	31	11	0	6
RVG top ht Kft			2.3	1		2.5			1.6			1.8	l		3.2
AVG thickness Kft	Ĺ		.56	Ĺ		.47	Ĺ		.59	L	_	.78	L	_	.39
AVG trap freq GHz			.36			.42			.28			.17			.56
AVG lyr grd -N/Kft			57			56			\$6			60			58
AVG lyr base Kft			1.9	i		2.1			1.2	l		1.2			2.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCURRE	NCE	YE	ARL	7	J	AN-M	AR	Al	R-J	UH	31	UL-S!	EP	- 00	CT-DI	EC .
		i	day	การ	din	day	nit	d&n	day	<u>ni</u> t	dan	day	nıt	dŁn	day	การ	din
8 to	10 Fee	٤	_ 2	_ 2	2	3	3	3	_ 3	1	2	3	2	2	1	1	1
10 to	20 Fee	ŧ	2	4	3	3	5	4	2	3	2	2	4	3	2	4	3
20_ to_	30 Fee	: 1	4	9	6	5	10	8	4	9	€	_ 4	_ 8	6	4	7	5
30 to	40 Fee	•	- 6	13	10	7	16	12	5	14	16	6	12	9	6	11	9
40 to	50 Fee	ŧ١	10	19	14	12	29	16	10	19	14	9	19	14	10	18	14
_ 50 to	60 Fee	3	13	19	16	12	16	14	13	19	16	14	21	18	13	28	16
60 to	70 Fee	•	13	13	13	13	12	13	12	14	13	12	13	12	14	14	14
78 to	88 Fee	ι	19	9	9	11	8	9	9	8	8	9	8	9	12	18	11
80 to	99 Fee	٠	7	4	5	7	4	5	7	3	5	6	_ 3	4	9	5	
98 to	100 Fee	ī	5	2	3	4	2	3	5	2	3	4	2	3	6	2	4
above	108 Fee	ı	28	7	18	24	5	14	32	9	26	32	7	19	25	7	16
Hean he	ight Fe	<u>•</u>	88	57	73	82	53	67	93	59	76	91	58	74	86	60	73

PARAMETER	YE	ARL'	7	31	พ-พ	R.	A.P	R-JI	אע	J	JL-51	EP	00	T-DI	C
	day	nit	dŁn	day	nit	d&n	dav	nit	dŁn	day	nit	ರಕಿಗ	day	nit_	dtn.
% occur EL&SB dcts			3			4			1			5			3
% occur 2+ EL dcts			1	ĺ		1			1			1			9
AVG station N			343	j		331			343			359	l		340
AVG station -N/Kft			21			18			23	ĺ		25			19
AVG sfc uind Kts	13	12	13	14	13	13	13	13	13	14	13	13	13	12	12

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

Specified location: 25 00 N 35 00 H 16 43 N 22 57 H (*) INDICATES INSUFFICIENT DATA

Radiosonde source: 8594

Radiosonde station height: 177 Feet

Surface obs source: MS76 25 08 N 35 08 N

PEPCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESH COM RANGES:

FREQUENCY	Y	EARL	Y	Ji	AN-M	AR .	R	R-J	JH	J	JL-SI	EΡ	0	CT-DI	EC
	day	nit	dan	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	dtn
100 HHz	3	3	3	2	6	4	4	3	3	3	2	2	5	0	2
1 GHz	41	16	29	31	27	29	47	17	32	47	14	31	39	7	23
3 GHz	52	24	38	43	37	49	57	24	41	58	21	48	52	13	32
6 GHz	79	61	73	74	68	71	80	58	69	83	61	72	81	58	69
10 GHz	92	88	98	91	89	98	92	88	98	94	87	91	94	89	91
20 GHz	96	95	95	96	95	96	95	95	95	96	94	95	97	95	46

SUFFRCE BASED DUCT SUMMARY:

PARAMETEP	Y	EARL'	Y	J	AH-KI	AR	AI	R-J	JH	11	UL-SI	ΕP	00	CT-DI	EC
	day	n i t	den	day	nit	den	day	nit	din	day	nıt	d&n	day	nıt	din
Percent occurrence	18	14	16	11	33	22	29	14	17	18	9	14	23	0	i 2
AVG thickness Kft	l		.62	1		.63			. 65			. 46			.75
AVG trap freq GHz	•		. 43	i		. 44			. 43	l		.48	l		. 39
AVG lun gnd -N/Kft	L		98			186			85			85	L		84

ELEVATED DUCT SUMMARY:

PAPAMETEP		EARL'	-		คห-หล			R-J			JL-S!			CT-DI	
		การ	d&n	day	nit	dtn	day	ntt	din	day	nit	dsn	dav	mit	den
Percent occurrence	43	22	32	47	- 0	24	47	22	35	36	65	51	41	0	21
AVG top ht Kft			2.8	•		2.7			2.6			3.3	i		2.4
AVG thickness Kft			. 92			.73	l		1.0			1.1			.90
AVG trap freq GHz			.11			. 16			. 99			.89			.11
AVG lur grd -N/Kft	l		67			61	1		73			59			64
RVG lyr base Kft			2.2	<u> </u>		2.1			2.1			2.7			1.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCUPRE	NCE	11	ERRL	1	J (AH-MI	AR.	A.	PR-JI	JH	JI	UL-Si	EP	01	CT-DE	EC
			day	nit	d&n	day	nıt	d&n	day	nit	den	day	การ	dt n	day	nit	dŧn
9 to	10 Fee	t	2	2	2	3	2	2	3	2	2	2	2	2	2	1	1
id to	20 Fee	t	2	5	3	2	5	4	3	5	4	2	5	3	2	4	3
28 to	30 Fee	t i	5	7	6	6	9	7	4	. 8	6	3	_	5	5	6	5
30 to	40 Fee		6	:2	ė	7	12	10	6	14	10	5	19	8	7	12	9
40 10	50 Fee	t	10	26	:5	11	20	16	5	21	15	8	19	13	10	19	15
50 to	60 Fee	t j	12	29	16	13	19	16	13	15	15	18	50	15	13	28	, - :
60 tc	70 Fee	ŧ.	10	13	12	13	13	31		12	10	9	13	11	12	15	14
70 to	80 Fee	L	9	9	9	10	9	18	7	?	7	9	9	9	10	9	10
80 to	90 Fee	t i	_6	4	5	6	4	5	6	4	5	6	3	5	7	4	6
90 to	100 Fee		4	2	3	5	5	3	4	2	3	4	2	3	5	3	4
above	100 Fee	t	33	7	20	25	6	16	38	8	23	40	9	25	27	7	17
Hean he	ight Fe	<u> </u>	95	58	76	84	56	78	102	58	86	185	60	82	88	58	73

PHKHMETER	YEHKLY	JRN-MAR	APR-JUN	JUL-SEP	OCT-DEC
		day nit dên	day nit dan	day nit dên	day nit din
% occur EL&SB dcts	7	4	10	8	7
% occur 2+ EL dets	3	2	3	4	2
AVG station N	348	338	344	360	350
AVG station -N/Kft	22	21	24	19	22
AVG stc uind Fts	12 12 12	14 13 13	12 11 11	_11 11 11	13 12 12

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 25 00 N 45 00 N (*) INDICATES INSUFFICIENT DATA Radiosonde source: 4YE 35 00 N 48 00 N

Radiosonde source: 4YE 35 00 N 48 Radiosonde station height: 39 Feet

Surface obs source: MS77 25 00 N 45 00 H

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR 'ESM 'COM RANGES:

PERCENT OCCORRENCE	<u> </u>	WHITH !	- ED	JUEF		. 0 - 5	UKFRI		TUTTE	_ 2311		P. C. L.	363.		
FREQUENCY	Y	EARL'	7	J	AH-K	AP.	RI	R-JI	UN	J	UL-SI	EP	01	CT-DI	EC
	day	nıt	d&n	day	nit	d&n	day	nit	den	day	nit	dtn	day	nit	d&n
100 MHz	2	1	1	1	1	1	2	1	1	4	1	2	1	1	1
1 GHz	37	10	24	27	10	18	41	10	26	49	11	30	31	10	28
3 GHz	48	17	32	39	17	28	51	15	33	60	_17	39	43	_ 18	_ 30
6 GHz	77	56	67	71	55	63	77	49	63	84	59	72	77	61	€9
10 GHz	92	67	89	98	96	83	92	83	87	95	88	91	93	89	91
20 GH ≥	96	94	95	95	94	95	96	92	94	98	95	96	97	96	96

SUPFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan				
Percent occurrence	11 4 8	6 6 6	12 4 8	28 4 12	6 3 5
AVG thickness Kft	.42	.25	.39	.58	.47
AVG trap freq GHz	.71	1.3	.78	.48	.33
AVG lyr grd -H/Kft	185	109	106	184	99

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL	i –	J	BH-M	RR .	Ai	R-J	JN	JU	JL-SI	P	00	T-DE	EC
	day	nıt	dan	day	nit	d&r.	day	nit	_d&n	day	nıt	dan	day	nit	den
Percent occurrence	31	43	37	29	39	34	49	52	46	28	45	37	28	37	33
AVG top ht Kft			5.7	l		5.5			5.4			5.7	[6.1
AVG thickness Kft			.43	L		.36			.43	L		.49	i		.43
AVG trap freq GHz			.39			.49			.39			.32			.35
AVG lyr grd -N/Kft			68			59			61	l		59	l		60
AVG lyn base Kft			5.4			5.2			5.1	1		5.3			5.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCURRENCE	Y	EARL	r	J	คห-หล	AR	A	PR-J	UH .	J	UL-S	EP	0	ופ-דט	EC
		day	nit	d&n	day	rit	d&n	day	nit	den	day	nit	d&n	day	nit	d£n
Ø to	10 Feet	2	1	2	2	2	2	2	2	2	2	1	1	2	1	1
18 to	28 Feet	2	5	3	3	5	4	3	6	4	2	4	3	2	4	3
20 10	30 Feet	4	8	6	_ 5	9	7	4	10	7	3	_ 8	6	4	7	_ 6
30 to	40 Feet	6	13	16	8	14	11	6	15	11	5	12	8	6	11	— <i>;</i> -
40 to	50 Feet	10	19	14	12	19	15	16	28	15	7	19	13	11	18	14
58 10	60 Feet	12	19	16	12	18	15	12	18	15	11	21	16	13	21	17
60 10	78 Feet	11	13	12	12	13	13	10	11	10	10	14	12	13	15	14
79 to	88 Feet	÷	S	8	19	9	Ģ	7	- 5	7	8	\$	8	10	10	:3
80 to	90 Feet	6	4	5	2	4	3	ē	3	4	6	4	5	s	5	6
90 to	100 Feet	4	2	3	5	2	3	3	1	2	- 5	2	====	5	- 3	
abov€	100 Feet	33	8	28	25	7	16	37	8	23	41	8	25	27	8	51
Hean he	ight Feet	94	58	76	84	57	70	99	57	78	107	60	83	87	60	74

PARAMETER	YEARLY	7	Jf	าห-หเ	iR .	AF	P-J1	JH.	Jŧ	JL-SE	EP	ŏ	T-DE	<u>:</u>
	day nit	din	day	nit	dan	day	กาะ	den	day	nıt	dŧn	day	nit	d&->
% occur EL&SB dcts		2			1			3			4			1
% occur 2+ EL dets		5]		3	į .		7	i		7	i		3
AVG station H		354	ĺ		338	[352			373	ĺ		352
RVG station -H/Kft		17			14			17	ĺ		19	İ		16
AUG sfc wind Kis	12 11	_ 11	14	13	13	11	10	19	11	10	10	12	11	12

Specified location: 25 00 N 55 00 H (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 78861 17 07 N 61 46 H Radiosonde station height: 33 Feet

Surface obs source: HS78 25 00 N 55 00 H

PERCENT ACCHIPERSE OF ENVIOUSER CUREOCE TO CHEERE BORD TOM COM

FRE	DUENCY		ARL'	7	7	AN-M	90	1 01	PR-J	ILI	71	JL-SI	-6		- T	
1				-											CT-DI	
L		day	nıt	d&n	day	nit	_d&n	day	nit	dan	day	nit	d&n	day	กรร	dir
188	MHZ	0	9	9	0	8	8	8	8	છ	6	0	9	e	0	ė
1	GHZ	31	9	20	25	8	16	33	9	21	37	10	24	27	8	18
3	GHz_	42	15	29	37	15	26	43	14	28	49	17	33	41	17	29
6	GHz	76	56	66	71	54	63	74	49	61	81	61	71	77	61	69
19	GHz	92	86	89	98	85	88	91	83	87	94	88	91	93	89	91
20	GHz	97	94	95	96	93	95	96	93	95	98	95	96	97	95	95

PARAMETER	YEA		-		AH-M			PR-Ji			UL-SI			C1-D	
	day n	ii t	dan	day	nit	dtn	day	nit	den	dav	nit	den	dav	nit	31 -
Percent occurrence	2	0	1	1	8	1	1	0	1	2	0	1	3	A	
AVG thickness Kft			.33	į		. 28	l		. 45	-	_	.26	Ţ	•	. 34
AVG trap freq GHz			.78	ĺ		1.0	!		.81			.66			.66
NYG lyr ard -N/Kft			200	i		353	l		200	l		82			163

ELEVATED BUCT SUMMARY:

PARAMETER		EARL	•		ลห-หก			R-JI			JL-SI		00	T-D	EC
	day	nit	d°n	day	nit	dån	day	กาะ	d&r	day	PIE	dan	da	nit	dtr
Percent occurrence	44	9	22	49	0	25	41	0	21	42	8	21	42	Ø	21
AVG top ht Kft			6.5	ì		6.9	ŀ		6.4		_	6.0		_	6.3
AVG thickness Kft			.48	ı		.41			.38			.40	l		.42
AVG trap freq GHz		-	.43	i —		.44			.48			.42			. 37
AVG lyr grd -H/Kft			60	İ		57	İ		58			62	1		61
AVG lur base Kf.			6.2			6.6			6.1	İ		5.7			6.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE.

PERCENT	UČCI	PREHCE		ARL			AN-M			R-JI		31	JL-SI	ĒΡ	00	T-DE	EC
			day	nit	d&n	day	nit	<u>d</u> £n	day	nit	dan	da/	nit	děn	day	nıı	dan
8 to	18	Feet	1	1	1	2	2	2	2	2	2	1	1	1	1	1	
10 to	28	Fest	2	4	3	2	5	3	2	5	4	1	4	3	2	4	3
20 to	30	Feet	4	8	6	5	8	7	5	10	7	4	7	6	4	ż	5
30 to	40	Feet	7	12	9	8	13	10	7	14	11	5	9	7	6	10	
40 to	50	Feet	10	18	14	12	18	15	10	20	15	8	17	13	11	17	14
50 to	€0	Feet	13	19	16	13	18	15	12	18	15	11	21	16		19	16
68 to	70	Feet	12	13	13	12	13	13	11	11	11	11	14	13	13	15	- 14
70 to	88	Feet	10	8	9	18	8	9	8	6	?	16	٠	9	1 11	10	10
01 BS	90	Feet	. 7	4	6	7	5	6	6	3	4	-	3	Ś	8	5	7
98 10	100	Feet	5	2	4	5	2	4	4	2	3	5	- 		5	3	4
evoda	100	Feet	30	9	19	24	8	16	32	9	21	37	10	23	26	9	17
lisan he	ight	Feet	91	60	76	82	58	78	93	58		101	63	82	87	62	

PARAMETER		ARLI			AN-H			PR-J		J	VL-SI	ΕP	0	CT-DI	EC
	day	110	din	day	nit	din	day	การ	dan	day	nit	din	da.	211	dt ^
% occur ELESE dets			1			1			1			1			
% occur 2+ EL dcts			11			13			10			10			13
AVG station H			373			363			372			381			376
AVG station -N/Kft			18			16			18			19			18
AVG sfc wind Kis	11	10	11	13	12	12	11	9.4	10	10	9.3	10	12	11	11

HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location:

IREPS REV 2.1

25 00 N 65 00 H

(*) INDICATES INSUFFICIENT DATA

Radiosonde source : 78526 18 25 N 66 08 H Radiosonde station height: 10 Feet

Surface obs source: MS79 25 00 H 65 00 H

PERCENT OCCUPRENCE OF ENHANCED SUPFACE-TO-SUPFACE RADAR ESH COM RANCES:

Excent offorkenice	Or E	*****	<u> </u>	2000	***				10111	2311			*		
FREQUENCY	Y	EARL	Υ	J	คห-หเ	AR T	A	PR-J:	JK	Ji	JL-SI	ΕP	00	CT-DI	EC
	day	nis	d&n	day	nit	d&n	day	nit	dan	day	ការដ	d&n	day	nit	d&n
100 MHz	1	0	1	1	1	1	2	9	1	1	8	1	1	0	6
1 GHz	31	11	21	24	10	17	34	11	23	39	13	26	27	10	19
3 GHz	43	20	_ 31	_35	18	27	45	17	31	51	21	36	42	22	_ 33
6 GHz	78	65	71	73	61	67	75	56	65	84	70	77	79	78	;
10 GHz	93	89	91	91	88	89	91	86	88	95	92	93	94	92	93
28 GHz	96	95	96	95	94	95	95	94	94	97	97	97	97	97	9

SOREHILE RHSED DOLL	SUMM	HRY:									_				
PARAMETER	Y	EARL'	Y	Ji	AH-M	AR	AI	PR-JI	UH	J	JL-SI	P	00	T-DE	C
	day	nit	d&n	day	nit	din	day	nit	dån	day	nit	d&n	day	nit	d≎n
Percent occurrence	7	3	5	4	4	4	10	2	6	9	2	6	5	3	4
AVG thickness Kft	l		. 42	1		.41	1		. 45	ĺ		.48	Í		.33
RVG trap freq GHz	1		. 87	ŀ		.87	į		.66			. 67	ı		1.3
AVG lun and -N Kft	<u> </u>		138	_		135	<u></u>		132			191	i		94

<u>ELEVATED DUCT SUNHA</u>	?Y:														
PARAMETER	- 7:	EARL'	Y	J	AH-M	AR .	Al	P-JI	JH.	J	UL-S	EΡ	01	T-DI	EC
	day	nıt	d&n	day	nit	d&n	day	nit	din	day	nit	dån	day	กเร	d&n
Percent occurrence	38	47	42	52	64	58	35	48	42	26	34	30	37	41	39
AVG top ht Kft	ĺ		7.2	!		7.3	į .		7.1	1		6.8	i		7.7
AVG thickness Kft			.43	1		.52	L		. 42	i		.43	i		.36
AVG trap freq GHz			.49			. 25	Γ		.40			.44			.51
AVG lyr grd -N/Kft			60	i		61	İ		61	ŀ		61	l		59
AVG lyr base Kft	l <u>.</u>		6.9	[6.9	[6.8	L		6.5	i		7.4

E-APORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT O	CCURRENCE	YE	ARL	Y	J	AH-M	AR .	Af	R-J	JH	J	UL-SI	ΕP	00	T-DE	
		da	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nı:	d&n
0 to 1	0 Feet	2	_ 1	2	2	2	2	3	2	3	1	1	1	1	1	1
10 to 2	8 Feet	2	3	3	3	4	3	3	4	3	1	3	2	1	3	2
20 to 3	0 Feet	- 4	6	5	. 5	7	_ 6	_ 5	8	_6	3	5	4	4	5	4
30 to 4	0 Feet	6	9	8	7	11	9	7	12	10	4	7	5	0	8	7
40 to 5	0 Feet	10	16	13	12	17	14	10	17	14	8	15	12	10	15	:2
50 10 6	0 Feet	13	19	16	14	19	16	12	18	15	12	21	17	13	19	16
60 10 7	0 Feet	13	16	14	13	15	14	11	13	12	12	17	15	14	18	16
70 to 8	0 Feet	10	11	1:	11	10	11	9	8	8	10	11	11	12	13	12
80 to 9	8 Feet	7	5	6	_ 7	5	_ 6	_ 6	_4	5	7	6	- 6	9	7	3
90 to 1	00 Feet	5	3	4	5	3	4	4	2	3	5	3	4	6	4	5
above 1	98 Feet	28	10	19	22	8	15	30	10	20	36	12	24	25	9	17
Hean her	ght Feet	89	64	76	80	60	76	98	61	75	100	68	84	86	65	~5

PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
L	day nit_d&	day nit dan	day nit dan	day nit dan	day nit din
% occur EL&SB dcts		. 2	1	1	1
% occur 2+ EL dcts		'[10	6	5	8
AVG station N	36	359	367	376	367
AVG station -N/Kft	10	15	16	17	16
AVG sfc wind Kis	12 12 13	13 13 13	12 11 12	11 11 11	13 12 13

TREPS REV 2.1 HISTOPICAL PROPAGATION CONDITIONS SUMMAP?

Specified location: 25 18 N 76 18 W (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 78076 25 18 N 76 18 W

Radiosonde station height: 30 Feet

Surface obs source: MS80 25 00 N 75 00 H

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SUPFACE RADAR ESM (OM PANGES

PERCENT OCCUPAENCE	UF E	ннни	יעבו	20KF	46 <u>F</u>	10-5	UPFR	LE K	41JHP	E 5 M	COM	MIN	st5:		
FREQUENCY	Y	EARL	Y	J	AH-M	AR	AI	PR-J	JN	J	JL-S	EΡ	00	CT-DE	EC]
	day	nıt	d&n	day	nıţ	d&n	day	nit	dtn	day	nit	den	day	nıt	d&n
100 MHz	8	- 0	9	0	9	9	1	0	- 0	0	Ø	Ð	0	0	3
1 GHz	28	11	19	20	7	14	33	12	22	35	14	25	24	9	16
3 GHz	40	20	30	32	16	24	42	19	31	45	24	34	39	22	31
6 GHz	76	66	71	72	62	67	73	59	66	80	71	75	78	71	75
10 GHz	92	89	90	91	88	89	89	85	87	93	91	92	93	92	93
20 GHz	96	94	95	95	93	94	93	92	93	97	95	96	97	96	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YI	EARL'	Ÿ	J	AN-MI	ar.	AI	R-J	UN	J	JL-3	ΕP	90	CT-DI	EC
L	day	nıt	d&n	day	nit	d&n	day	nıt	dtn	day	nıt	dŧn	day	nit	dsn
Percent occurrence	3	0	2	3	. 0	2	4	Ü	2	1	9	1	4	- 0	2
AVG thickness Kft	ľ		.36	l		.47			. 42			. 28	i		.27
AVG trap freq GHz	l		1.2	l		.78	i		.34	1		1.9			1.9
AVG lun gnd -H/Kft	L		177	Ĺ		198			133			227			238

ELEVATED DUCT SUNHARY:

PARAHETER	Y	ARL'	Y	Ji	AH-M	ĀR -	Af	PR-JI	UN	Jt	JL-SE	P	O	CT-DI	ĒŪ
	day	nit	d&n	day	nit	dŧn	day	nit	d&n	dau	011	d&n	day	nit	d* n
Percent occurrence	25	8	12	36	0	18	24	0	12	:5	9	8	24	8	12
AVG top ht Kft	İ		4.5	l		5.1	ŀ		4.5	l		3.2	1		5.3
AVG thickness Kft	1		. 42	i		. 44			. 47	l		.37			.41
AVG trap freq GHz			.54			.36	i		.64			.73			.43
AVG lyn grd -N/Kft	ŀ		56	i i		60			56			51			57
AVG lyr base Kft			4.2	1		4.8			4.2			2.9			5.∂

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT (DCCU	RRENCE	YE	ARL	1	J	AN-H	R SF	A	R-JI	JH	JI	JL-SE	P	o	T-DE	EC
			dav	nit	den	dav	nit	ರ೩೧	day	nit	dtn	da	nit	dt n	day	ក្ខាខ	dt n
0 to	10	Feet	3	2	2	3	3	3	4	4	4	2	1	2	2	1	1
10 to 2	20	Feet	2	3	3	3	4	3	3	4	4	2	3	2	2	3	2
20 to 3	30	Feet	7	5	5	5	6	5	5	7	6	3	_ 5	4	3	4	4
30 to -	10	Feet	9	9	7	8	10	9	ε	10	8	5	5	5	6	7	7
40 to 9	50	Feet	10	15	12:	12	16	14	10	16	13	9	13	1:	16	13	12
_ 50 to 6	50	Feet	13	18	16	14	18	16	12	17	15	13	19	16	13	18	16
60 to 7	70	Feet	13	16	14	14	16	15	:1	14	12	12	17	15	14	18	15
70 to 8	36	Feet	11	11	11	12	12	12	9	9	9	9	11	10	13	14	13
80 00 9	90	Feet	7	6	7	7	6	7	6	5	5	6	6	6	9	8	9
90 to 1	100	Feet	5	3	4	4	3	4	4	3	3	4	3	4	6	5	5
above 1	100	Feet	27	11	19	19	7	13	30	12	21	35	14	25	22	9	15
Hean he	ght	Feet	87	56	76	76	60	63	90	65	7-	99	71	85	82	66	74

PAPAHETER	YE	BSL.	Y	11	414-115	48	95	- F-J	rii (- 31	UL-SI	EP	0	<u> </u>	EC
	day	nit	dan	day	nit	den	day	nit	den	day	011	dtn	da.	nit	dta
% occur EL&SB dc:s			0			:			Ð			0	Γ		ō
% occur 2+ EL dcts	ĺ		3			3			1	l		2	ł		3
AVG station H			366			351			369			383	1		362
AVG station -N/Kft			18			16			20			21	1		17
AVG sec used Kts	13	12	12	14	14	14	12	12	12	11	11	11	14	13	13

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMAP,

Specified location: 26 36 N 78 18 W (*) INDICATES INSUFFICIENT DATA Radiosonde source: 78063 26 36 N 78 18 W

Radiosonde station height: 7 Feet

Surface obs source: MS80 25 80 N 75 00 W

PERCENT COURPERCE OF ENHANCED SUPERICE-TO-SUPERICE DADAR ESM COM RANGES:

LENCENT OCCONFERENCE	<u> </u>	31.01.0144		JUN 1	,,,,,		Un 7 711	<u> </u>	מוועוי	<u> </u>	C OII	F 1 11 11	,,,,		
FREQUENCY	TY	EARL'	Y	J	AN-M	BR	Al	PR-J	UH	Ji	JL-SI	EF	60	CT-DE	EC
	day	nit	dan	day	nit	dŧn	day	nit	dŁn	day	nit	dan	day	nit	n3b
100 MHz	0	Ø	9	0	0	8	8	0	9	0	1	0	1	Ð	Ù
1 GHz	27	12	19	19	8	13	31	13	22	35	16	2€	24	10	17
3 GHz_	39	21	30	30	17	23	40	_ 20	36	45	26	36	39	23	31
6 GHz	75	66	71	71	62	66	72	60	66	86	72	76	78	72	75
10 GHz	91	89	90	98	88	89	88	86	87	93	91	92	93	92	93
20 GHz	95	94	95	95	93	94	93	92	93	97	96	96	97	97	97

CHECACE DASED DUCT SHMMADY.

	OHINK T.				
PARAMETER	YEARLY	JAN-MAR	APR-JUH	JUL-SEP	OCT-DEC
L	day nit dan	day nit dan	day nit dan	day nit dan	day nit dt.
Percent occurrence	2 2 2	e 1 1	1 1 1	1 4 3	4 1 3
AYG whickness Kft	.52	.36	.84	.43	.44
AVG trap freq GHz	1.6	4.5	.33	.64	1.6
AVG lun grd -N/Kft	118	128	78	110	156

FI FUATER THAT SHIMMARY:

PARAMETER	Y	EARL'	<u>r</u>	Ji	AH-MI	AR .	A!	PR-J	JH	J,	JL-31	P	00	T-D	EC
	day	nit	d&n	day	nıt	dan	day	nit	a&n	day	การ	ರಹಿಗ	day	211	dan
Percent occurrence	29	28	29	39	35	37	25	29	27	21	18	20	30	31	31
AVG top ht Kft			4.2	1		5.0			4.1			3.2			4.5
AVG thickness Kft			. 45	ł		.51			.39			. 45	i		. 45
AVG trap freq GHz			.51			.29			.82			.57			.37
HYG lyr grd -N/Kft			56	[58	ĺ		54			53			60
AVG lyn base Vft			3.8			4.6			3.8			2.8			4.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	Y	EARL	7	J	AH-N	AR	. AF	K-J	314	J	L-5i	Ρ	C	T-DE	ε -
	day	กเน	dan	day	nit	d&n	day	nit	dår	dau	611	dsn	day	nit	din
0 to 10 Feet	3	2	2	3	3	3	4	4	4	2	1	2	2	1	1
10 to 20 Feet	2	3	3	3	4	3	3	4	4	2	3	2	2	3	2
20 to 30 Feet	1 4	5	5	5	6	_ 5	5	_ 7	દ	3	5	4	3	4	4
30 to 40 Feet	6	9	7	8	19	9	6	18	ક	5	6	- 6	€	7	7
40 to 50 Feet	10	15	12	12	16	1.4	10	16	13	9	13	11	16	13	ے 1
50 to 60 Feet	13	18	16	14	18	16	12	17	15	13	19	16	13	18	16
60 to 70 Feet	13	16	14	14	1 6	15	11	14	12	12	17	15	14	18	16
70 to 80 Feet	11	11	11	12	12	12	9	9	ç	9	11	10	13	14	13
88 to 98 Feet	7	6	7	7	6	7	-6	_ 5	5	_€	6	6	9	8	y
98 to 100 Feet	5	3	4	4	3	4	4	3	3	4	3	4	6	5	5
above 190 Feet	27	11	19	19	7	13	30	12	21	35	14	∠5	22	9	16
Mean height Feet	87	66	76	76	69	68	96	65	77	99	71	85	82	65	74

PARAMETER	YEARLY	JAN-HAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dar	day nit dan	day nit dan	day nit den	day nit dt
% occur EL&SB dcts		0	1	8	Ö
% occur 2+ EL dcts	3	4	3	3	3
AVG station N	364	345	367	383	359
AVG station -N/Kft	17	14	18	19	16
AVG sfc wind Kts	13 12 12	14 14 14	12 12 12	11 11 11	14 13 13

TREPS REV 2.1 HISTOPICAL PROPAGATION CONDITIONS SUMMAF:

Specified location: 21 27 N 71 09 N (*) INDICATES INSUFFICIENT DATA Padiosonde source: 78118 21 27 N 71 09 W

Radiosende station height: 26 Feet Surface obs source: MS80 25 00 N 75 00 H

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR FSM COM RANGES:

	CCOFFERE							_			<u> </u>		rn u			
FREO	UENCY	Į YI	EARL'	Y	J1	AH-M	1R	l Ai	PR-JI	JH :	Jŧ	JL-SI	EP	0	CT-DE	EC
	_	day	nit	d&n	İday	nıt	den	day	nit	d&n	day	nit	dtn	day	nit	dt n
100	MHZ	0	Ð	9	1	9	- 0	e	9	9	0	9	- 0	8	8	Ð
1	GHz	27	11	19	20	7	14	36	12	21	35	14	25	23	9	16
3	GHz	39	28	38	32	16	24	48	19	30	45	24	34	38	22	39
6	GHz	75	66	71	72	62	67	72	59	66	89	71	75	78	71	75
10	GHz	91	89	98	91	85	89	83	85	87	93	91	92	93	92	93
28	GHz	95	94	95	95	93	94	93	92	93	97	95	96	97	96	97

SURFACE BASED DUCT SURHARY:

PARAMETER	Y	EARL'	Y	J	BH-H	AR	AI	PR-J	JN	31	UL-S	Р	01	T-DI	EC
	day	nit	d&n	day	nıt	d&n	day	nit	d&n	day	nit	den	dav	nit	dt n
Percent occurrence	1	0	1	2	9	1	0	8	9	1	8	1	1	ð	1
AVG thickness Kft			. 45	ļ		.30			. 37			.23	ŀ		. 41
AVG trap freq SHz			.63			.24	i		.19	ŀ		1.3	İ		.79
AVG lyr grd -N/Kft			317			181			510	İ		410	ļ		158

ELEVATED DUCT SUNNARY:

PARAMETER	Y	HRL'	r	31	RH-MA	R R	AI	R-JI	JN	76	JL-SI	P	00	T-DI	EC
	day	nit	d&n	day	711	dèn	day	nıt	dŧn	day	nıt	dŧn	day	nit	dŧn
Percent occurrence	44	Ø	22	50	0	25	48	8	24	36	0	18	43	9	22
AVG top ht Kft			5.9	!		6.0	l		5.4			5.0			6.3
AVG thickness Kft			.41			.42	l		. 47	!		. 35	ŀ		.42
AVG trap freq GHz			.41			.40			.32			.50			.43
AVG lyr grd -H/Kft			60			61	ł		64			59	i		57
AVG lyr base Kft			5.6	ı		5.7	i		5.0			5.7	İ		6.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT O	CCURRENCE		ARLI			H-HA			R-JI			JL-SI			T-DE	
		da-	nıt	dan	day	nıt	d&n	day	011	dàn	day	ntt	den	day	711	dûn
0 to 1	0 Feet	3	2	2	3	3	3	4	4	4	2	1	2	2	1	1
10 to 2	0 Feet	2	3	3	3	4	3	3	4	4	2	3	2	2	3	2
20 to 3	0 Feet	4	5	5	5	6	5	5	7	6	3	5	4	3	4	4
38 to 4	0 Feet	6	9	7	8	10	9	6	10	8	5	- 6	- 6	6	7	7
48 to 5	0 Feet	10	15	12	12	16	14	18	16	13	9	13	11	10	13	12
50 to 6	0 Feet	13	18	16	14	18	16	12	17	15	13	19	15	13	18	16
60 to 7	0 Feet	13	16	14	14	15	15	11	14	12	12	17	15	14	18	16
78 to 3	0 Feet	11	11	11	12	12	12	9	9	9	و	11	10	13	14	13
80 to 9	0 Feet	7	6	7	7	6	7	6	5	5	6	6	6	9	3	9
90 to 1	00 Feet	5	3	4	4	3	4	4	3	3	4		4	6		5
atov∈ 1	00 Feet	2.	11	19	19	7	13	30	12	21	35	14	25	22	9	15
Hear her	ght feet	87	66	76	76	60	68	90	65	77	99	71	85	82	66	74

PARAMETER	YEARL	Y	Jf	RH-MA	R	R	R-J	NH	Jt	JL-S!	ĘΡ	01	CT-DI	EC
	nıt برda	dtn	day	nit	dan	day	211	din	day	nit	dzr.	da.	F-11	den
& occur EL&SB dcts		- 6			1			6			0			0
% occur 2+ EL dets		12			17	!		12			8			11
AVG station N		369			360			378			379	Į		365
AVG station -N/Kft		17			16			18			19	1		16
AVG sfc wind Kis	13 12	12	14	14	14	12	12	12	11	11	11	14	13	13

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 29 43 N 84 58 H (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 72220 29 43 N 84 58 H

Padiosonde station height: 39 Feet Surface obs source: MS81 25 00 N 85 00 W

FERCENT OCCUPPENCE OF ENHANCED SURFACE-TO-SURFACE RADRY ESM COM PANGES:

LECTIVE OCCOUNTING	<u> </u>	******		,,,,,			V			<u></u>					
FREQUENCY	Y	EARL'	Y	J	AH-H	RR	A	PR-J	UH	JU	JL-\$1	EP	00	,T-D	EC
i	day	211	d&n	day	nit	ರಹಿಗ	day	nit	den	day	ពួកដ	C&n	day	nit	džn
100 MHz	1	1	1	+	*	¥	7	*	*	8	1	8	1	2	— <u>-</u>
1 GHz	33	16	25	+	*	¥	*	*	*	36	15	26	36	18	24
3 GHz	46	28	37	*	*	*	+	ŧ	*	46	24	35	47	33	49
6 GHz	81	74	78	*	¥	*	¥	*	*	80	72	76	82	-76	79
10 SHz	93	92	93	ı	*	*	*	*	*	93	91	92	94	92	93
20 GHz	97	96	96	*	*	*	±	*	•	97	96	97	96	96	96

SUPPACE RASED DUCT SUMMARY:

PARAMETER	Y	ARL'	7	J	AN-M	ar .	A	R-J	UN	J	L-Si	Ρ	OCT.	-DEC
	day	nit	din	day	nit	dan	day	nit	d&n	dav	nit	d&n	dav r	· dtn
Percent occurrence	5	12	9	+	*	*	*	*	*	4	5	5	8	13
AVG thickness Kft			.32	!		*			*	[. 26	[: 3
AVG trap freq GHz			1.2	i		÷			*	İ		1.3	1	1.0
AVG 10r and -N/Kft			150			4	ŧ		*	j		182	1	18

ELEVATED DUCT SHRRAPY.

PARAMETER	Y	EARL	7	Ji	AN-M	AR	AI	R-J	JN	Jt	L-Si	P	90	T-DI	EC "
	da:	nit	d&n	day	nıt	dån	day	nit	dan	day	<u>r. : 1</u>	dtn	dau	nit	dtr
Percent occurrence	69	50	55	*	+	*	+	4	#	51	3€	44	€8	64	อีร์
AVG top ht Kft			5.9	l		*	l		•			7.2	l		4.6
AVG thickness Kft			.39			*	L		+	L	_	.31		_	.4?
AVG trap freq GHz			.50			*			*			.72			.27
AVG lyr grd -H/kft			60	i		÷			*			56	l		÷3
A'G lyr base Kft			5.6	i		*	ļ		*			6.9			4.3

EFAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURREN	E YEAPI	.Υ	Ji	ลห-ห:	9R	A!	R-JU	111	از	L-S!	P	36	T-DE	C
	day nit	<u>d&n</u>	day	nst	din	day	911	dan	day	CIT	dta	day	410	den
9 to 10 Feet	3 2	3	5	4	5	4	3	3	2	1	- 1	2	2	2
10 to 20 Feet	2 4	3	3	4	3	3	4	4	2	4	3	1	3	2
20 to 30 Feet	1 4 6	5 5	4	7	- 6	4	7	5	4	_ 5	ᅽ	3	5	-3
30 to 40 Feet	5 8	7	5	10	- 8	6	9	8	5	5	- 5	5	7	- 6
40 to 50 Feet	9 1-	12	10	15	13	10	15	13	9	13	11	8	12	10
50 to 60 Feet	12 18	15	12	18	15	13	18	15	13	20	16	11	_16	14
60 to 70 Feet	13 16	14	13	15	14	11	14	13	13	18	16	13	17	1 -
70 to 30 Feet	10 12	11	11	11	11	8	9	9	9	12	11	:3	15	14
80 10 90 Feet	7 6	7	7	5	6	6	5_	5.	- 6	6	- 6	16	8	- 9
90 to 100 Feet	4 3	: 4	4	3	_ 1	4	2	3	4	3	3	6	5	=
above 100 Feet	30 11	. 28	24	8	16	32	13	23	35	13	24	27	10	19
Mean height Feet	91 65	78	81	60	70	93	66	79	100	70	85	98	67	78

GENERAL METEOPOLOGY SUNHAPY:

PAPAHETER	YEARLY	JA4-MAR	APR-JUH	JUL-SEP	OCT-DEC
	day nit dêr	day nit dan	day nit dên	day nit dan	day nit din
" occur EL&SB dcts		9	8	0	8
% occur 2+ EL dets	1	' 0	0	8	20
AVS station H	362	*	•	380	343
AVG station -H/Kft	17	•		17	17
AVG sfc wind Yts	12 12 12	14 13 14	12 11 11	10 10 10	14 13 13

HISTORICAL PROPAGATION CONDITIONS SUMMARY

IREPS REY 2.1

Specified location:

29 19 N 89 24 W Radiosonde source : 72232 29 19 N 89 24 H (*) INDICATES INSUFFICIENT DATA

Radiosonde station height:

3 Feet

Surface obs source: HS81 25 00 H 85 00 H

PERCENT OCCUPPENCE OF ENHANCED SURFACE-TO-SURFACE RADAR-ESM COM RANGES:

П	FRE	DUENCY	Y	EARL'	r	J	AH-H	AR	RI	PR-JU	JN		L-S	EΡ	00	CT-DI	EC -
1			day	nıt	d&n	day	nit	dån	day	nit	d&r	day	nit	d&n	da	nit	dķr
	100	MHz	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1
1	í	GHz	34	15	24	28	11	19	38	19	28	38	17	28	31	13	22
!	3	GHz	4€	25	35	40	19	39	48	28	38	47	27	37	47	27	37
	6	GHz	78	68	73	74	61	67	76	66	71	81	73	77	82	73	78
1	10	GHZ	92	89	98	89	85	87	91	88	89	93	92	93	94	91	92
Į.	28	GHz	95	95	95	93	92	93	94	94	94	97	97	97	96	96	96

CUPEACE BACET BUCT CHMMADY.

PARAMETER	Y	ARL'	8	J	an-Hi	RR	R	-Z-J	HU	30	JL-SI	EP -	- 00	T-DE	EC
	day	nıt	din	day	nit	d&n	day	nit	dŧn	day	ntt	dtn	dav	7112	d: n
Percent occurrence	g.	8	8	9	- 5	7	13	11	12	7	- 8	8	8	6	7
AVG thickness Kft	[.43	1		.38	l		.48	l		. 48			. 37
AVG trap freq GHz	i		.61	1		.64	1		.57	1		.59			.66
AVG lyr grd -H/Kft	ļ		94	l		94	l		82	•		122	1		76

ELEVATED DUCT SUMMARY:

PARAMETER	Y!	EARL	Ÿ	J	AN-HI	RR	AI	PR-J	บห	J	JL-SI	ΕP	ő	T-DE	EC
	day	nit	đěn	day	nit	d&n	day	nit	ರ್ಷಗ	day	nit	dtn	day	nit	đěn
Percent occurrence	45	37	41	51	41	46	49	39	44	28	23	26	51	44	48
AVG top ht Kft	İ		4.2	l		4.3	į		4.1	l		4.8	i		4.6
AVG thickness Kft			.50			. 47			. 55	l		.48			.52
AVG trap freq GHz			.28			.29			.25			.35			.24
AVG lyr grd -N/Kft			62	l		63	İ		61	i		59			65
AVG for pase Vf.			3.9	l		3.9			3.7	i		3.6			4.2

EVAPOPATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCC	URRENCE	ΨE	ARL	Ÿ.	Jí	H-H	48	AF	R-J	JN	3	UL-Si	ĒΡ	00	CT-DE	C
		day	nt	din	day	nit	den	day	nít	din	day	nit	d‡^	da	nit	d\$n
0 to 10	Feet	3	2	3	5	4	5	4	3	3	2		1	2	2	2
10 to 20	Feet	2	4	3	3	4	3	3	4	4	2	4	3	1	3	2
20 to 30	Feet	4	6	5	4	7	6	4	7	_ 5	4	5	4	3	5	4
30 to 40	Feet	5	8	7	6	10	- 5	6	9	8	5	6	6	5	7	- 5
40 to 50	Feet	9	14	12	10	15	13	10	15	13	9	:3	11	8	12	10
50 to 60	Feet	12	18	15	12	18	15	13	18	15	13	26	16	11	16	14
60 to 70	Feet	13	16	14	13	15	14	11	14	13	13	18	16	13	17	T15
28 or 85	Feet	10	12	11	11	11	11	8	9	9	ė	12	11	13	15	14
80 10 90	Feet	7	6	7	7	5	6	6	5	5	6	6	6	10	8	9
90 to 100	Feet	4	3	4	4	3	4	4	2	3	4	3	3	6	5	5
above 108	Feet	30	11	28	24	8	16	32	13	23	35	13	24	27	10	19
Hean heigh	r Feet	91	65	78	81	68	78	93	56	79	100	79	85	90	67	78

PARAMETEP	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	dau nit dan	day nit dan	day rit den	day out den	day nit dir
% occur EL&SB dcts	3	2	4	1	3
% occur 2+ EL dets	6	8	8	4	اه
AVG station N	358	335	368	381	347
RVG station -H/Kft	18	16	19	19	17
AVG sfc wind kis	12 12 12	14 13 14	12 11 11	10 10 10	14 13 13

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUPMAPY

Specified location: 28 28 N 80 33 W (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 74794 28 28 H 80 33 H

Radiosonde station height: 10 Feet Surface obs source: MS81 25 00 N 95 00 W

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM PANGES:

THE PART OF COUNTRIES	<u> </u>		<u> </u>	-		 					~ ~ .	. , . , . ,			
FREQUENCY	Y	EARL'	¥	J	AH-MI	RR	R	PR-J	บพ	11	UL-SI	F	0.	CT-DI	EC .
	day	nıt	d&n	day	nit	dŁn	day	nı t	d&n	day	nıt	d&n	day	nit	d\$ n
100 MHz	1	1	1	1	1	1	1	2	1	1	2	1	1	1	1
1 GHz	32	15	24	28	11	19	35	19	27	37	19	28	29	13	21
3 GHz	44	26	35	40	28	38	45	28	36	46	28	37	4€	27	36
€ GHZ	78	69	73	74	61	68	75	66	78	89	74	7?	82	73	77
10 GHz	92	89	98	90	86	88	90	88	89	93	92	93	93	91	92
20 GHz	95	95	95	93	92	93	94	94	94	97	97	97	96	96	٥,

SUPFACE BASED DUCT SUMMARY:

PARAMETER	YE	ARL'	7	3	AH-HI	18	Af	R-J	JN	J	UL-SI	EP	Ĉ(CT-DI	EC
	dav	nit	d&n	day	nıt	dŧn	day	nit	din	day	nit	den	day	nit	dan
Percent occurrence	7	9	8	10	- 6	8	7	11	٠	5	11	8	5	7	
AVG thickness Kft			. 48	l		.34	l		. 40			.48	l		.38
AVG trap freq GHz	l		.70	l		.89	i		.59	i		.62	İ		. 69
AVC 10r and -N/Kft	i		102			113	1		93			119	l		94

FLEVATED BUCT SUMMARY:

PARAMETER	Y	EARL'	, — ·	31	AH-111	98	N.	PR-J	JN	Ji	/L - 5!	EP -	o:	T-D	EC
	day	nit	ರ ೩೧	day	n:t	d&n	day	nıt	dan	day	nit	dan	day	nit	dt ·
Percent occurrence	41	23	32	41	23	32	48	25	37	32	1?	25	44	25	35
AVG top ht Kft	Ì		4.6	ŀ		4.7	1		4.6	l		3.3	1		5.7
AVG thickness Kft			.42			.38			.46	İ		. 45	L		.39
AVG trap freq GHz			.38			.43			.33			.34			.42
AVG lyn grd -N/Kft			59			58	l		59	i		56			€2
AVG lyr base Kft		_	4.3	L		4.4	1		4.2			3.0	•		5.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT OCCURRENCE	71	EARL	Y	31	an-m	AR 🗆	RI.	PR-J	UN	J	JL-SE	P	00	T-DI	EC
	day	nit	din	day	nit	dan	day	nit	d£n	day	nst	din	day	nit	din
0 to 10 Feet	3	2	3	5	4	5	4	3	3	2	1	1	2	2	2
10 to 20 Feet	2	4	3	3	4	3	3	4	4	2	4	3	1	3	2
20 10 30 Feet	4	6	5	4	. 7	6	4	_ 7	5	4	5_	4	3	5	- 4
30 to 40 Feet	5	8	7	- 6	10	8	6	9	క	5	- 6	6	5	7	6
40 to 50 Feet	9.9	14	12	10	15	13	10	15	13	9	13	11	8	12	10
53 10 60 Feet	12	18	15	12	18	15	13	18	15	13	_20	16	11	16	14
60 to 70 Feet	13	16	14	13	15	14	11	14	13	13	18	16	13	17	15
70 to 80 Feet	10	12	11	11	11	11	8	9	9	iэ	12	11	13	15	14
80 to 98 Feet	<u> 7</u>	6	7	7	5	6	-6	5	5	6	6	- 6	16	_8	9
98 to 108 Feet	1 4	3	4	7	3	4	4	2	3	- 3	3	3	6	5	ē
above 100 Feet	39	11	26	24	8	16	35	13	23	35	:3	24	27	10	19
Mean height Feet	j 91	65	78	81	68	70	93	66	79	100	78	85	98	67	78

PARAMETER	YEARLY	JAN-HAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit din	day nit dan	day nit den	day nit dên	day nit den
% occur EL&SB dcts	2	2	3	1	2
% occur 2+ EL dcts	7	7	9	8	7
AVG station H	359	340	363	382	35: 1
AVG station -H/Kft	17	16	19	19	16
AVG sfc wind Kts	12 12 12	14 13 14	12 11 1:	10 10 10	14 13 13

TREPS REV 2.1 FIRT RICAL PROPAGATION CONDITIONS SUMMAPT

Specified location: 23 09 N 82 21 W (*) INDICATES INSUFFICIENT DATK Radiosonde source: 78325 23 09 N 82 21 W

Radiosonde source: 78325 23 89 N : Radiosonde station height: 164 Feet

TO THE PROPERTY OF THE PROPERT

Surface obs source: MS81 25 80 N 85 00 H

PEPCENT OCCURPENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM CGM RANGES:

COEC	SUENCY	T V	EARL'	, ,	1	AN-M	à	01	2-JI	Tiv	71	UL-S	F 6	0	CT-D	F1
FRE	SOEUCI										-			-		
		day	nıt	d&n	day	nit	den	day	nit	d&n	day	nit	d&n	day	nit	da-
188	MHz	1	9	1	1	9	- 0	1	0	1	÷	*	*	*	*	¥
1	GHz	38	10	28	26	8	17	35	13	24	*	*	*	*	*	*
3	GHz	41	18	39	38	16	27	45	28	32	*	*	*	*	¥	÷
6	GHz	74	60	67	73	59	66	75	62	68	*	*	*	•	*	
19	GHZ	89	86	88	89	85	87	98	87	88		•	ŧ	*	*	•
ខ្ម	GHZ	94	92	93	93	92	92	94	93	94	*	*	*		*	*

SURFACE BASED DUCT SUMMARY:

SOMEHUE PHOED DOCT	OUTIFIE	nr:													
PARAMETER	Y	EARL'	1	J	AN-H	RR	Al	-R-JI	H	Jı	JL-S	ΕP	Ct	CT-DI	EC
	day	nit	dan	day	nit	den	day	กาเ	d&n	dav	nit	dtn	day	nıt	den
Percent occurrence	4	9	2	6	- 0	3	- 3	9	3	-*	4	+	9	9	9
AVG thickness Kft	İ		.40	ĺ		.48	ļ		. 33	l		*			*
AVG trap freq GHz			.72	ļ		1.2			. 24	•		*			*
AVG lyr grd -N/Kft			168			99			237			*			4

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL	•	J6	111-HI	nR	A	R-JI	JN	J	JL-S	EP	O	CT-DE	EC
	day	1112	d&n	day	nit	dûn	day	nit	den	day	nit	dan	day	nıt	d\$n
Percent occurrence	1	0	1	4	9	2	0	0	0	*	4	*	0	9	e
AVG top ht Kft	İ		7.1	l		7.1	l		*	1		*			*
AVG thickness Kft			.54	l		. 54			*	L		*			-
AVG trap freq GHz			.98			.90			¥			*			*
AVG lyn grd -N/Kft			121	i		121	ļ .		>	ŀ		*	ĺ		*
AVG lyr base Ift	l		6.9	l		6.9	1		#			*	1		•

以外的时间的现在分词的一种形式的现在分词是一种的时间的对象,是一个人的时间,是一个人的时间的时间,也是一个人的时间的时间,也是一个人的时间,也是一个人的时间,也是

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EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PERCENT	QC C	JRPENCE	76	ARL	7	J	AH-HI	R.	A	R-JI	JH	1	JL-SE	P	00	T-DE	EC -
			dav	n11	d&n	day	n)t	din	day	nit	din	day	nit	dtn	day	nit	den
e to	10	Feet	3	2	3	- 5	4	- 5	4	3	3	2	1	1	2	2	2
18 to	20	Feet	2	4	3	3	4	3	3	4	4	2	4	3	1	3	2
20 10	30	Feet	4	6	5	4	7	6	4	_ 7	5	4	_ 5	4	3	5	4
30 to	40	Feet	5	8	7	6	10	- 8	6	. 9	8	5	š	6	5	7	- 6
40 to	50	Feet	9	14	12	18	15	13	10	15	13	9	13	11	8	12	:0
50 10	60	Fe€t	12	18	15	12	18	15	13	18	15	13	26	16	11	16	14
€0 to	70	Feet	13	16	14	13	15	14	11	14	13	13	15	16	13	17	15
70 to	80	Feet	10	12	11	11	11	11	8	9	9	9	12	11	13	15	14
80 to	93	Feet	7	6	7	7	5	6	6	5	5	_ 6	6	6	10	8	9
96 10	100	Feet	4	3	4	4	3	4	4	2	3	4	3	- 3	6	5	;
above	100	Feet	30	11	20	24	8	16	32	13	23	35	13	24	27	10	:9
tigan he	· Gh	it Feet	91	65	78	81	68	70	93	56	79	100	73	93	90	67	70

PARAHETER	YE	EARL'	Y	Jf	111-11	AR .	A5	P-31	บห	J:	JL-SI	EP	90	T-D!	C
	day	nit	din	day	011	din	day	nit	d£n	dav	211	da n	da	nit	9 "
% occur EL&SP dcts			8			3			0	1		0			- 0
% occur 2+ EL dets			8			1	İ		0			0	1		9
AVG station N			358	İ		361	l		374	i		•			339
AVG station -H/Kft			16	•		16	i		19	l		+			13
AVG sfc wind Fts	12	12	12	14	13	14	12	11	11	10	10	10	14	13	13

HISTORICAL PROPAGATION CONDITIONS SURHAR? IREPS PEV 2.1

Specified location: 24 34 N 81 42 W Rad:osonde source: 72201 24 34 N 81 42 W (*) INDICATES INSUFFICIENT DATA

Radiosonde station height: 10 Feet

Surface obs source: MS81 25 00 H 85 00 H

FEDIENT OCCUPPENCE OF ENHANCED SUPERCE-TO-SUPERCE DATIAN FOR THE DALCES.

FREQUENCY	Y	ERRL'	Y	J	AH-K	AR	Al	PR-J	UH	Ji	JL-SI	EP	O	CT-D	EC
	day	nit	dŧn	day	nit	dan	day	nıt	den	dav	nit	dan	day	nit	dtn
100 MHz	1	1	1	1	1	1	1	1	1	0	G	- 0	1	- 0	- 3
1 GHz	31	13	22	25	13	19	34	16	25	36	14	25	29	11	2.0
3 GH=	43	23	33	37	22	29	43	23	33	45	23	34	45	25	35
6 GHz	77	67	72	73	62	67	74	64	69	80	72	76	81	⁻ 72	- 77
18 GHz	91	89	98	89	86	87	90	87	88	93	91	92	93	91	92
20 GHz	95	94	95	93	92	93	94	93	94	97	96	97	96	96	96

SUPPRICE RASED DUCT SUMMARY:

PARAMETER	YI	ERRL	Y	J	AH-HI	AR	AF	R-J	JN	J	UL-SI	EP	0:	T-D	ĒČ
	day	nit	dan	day	nit	d&n	day	nit	dan	day	nit	d&n	day	nit	den
Percent occurrence	3	4	4	3	8	6	3	4	4	3	- 2	3	4	3	4
AVG thickness Kft			.51			.60	l		. 50			.53	l		. ?9
AVG trap freq GHz			.63			. 54	Į		. 24			.90			.83
AVG lur grd -N/Kft			111			134			101			95			116

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL	Y	J	ลห-ห	AR	- 81	R-J	UN	J	LL-SI	EΡ	G	T-D!	EC .
	day	nit	den	day	nit	dŁn	day	การ	d&n	day	nit	さなの	day	nit	ತಕ್ಕಿ
Percent occurrence	54	54	54	67	61	64	56	52	54	31	28	35	6≥	66	54
AVG top ht Kft	1		5.9			5.6	1		5.3	l		5.9	ł		6.9
AVG thickness Ift			. 49			.53			.53	_		.37	<u>.</u> .		.52
HVG trap freq GHz			.29			.22	Γ		.28			.46			.22
AVG lyr grd -H/Kft	1		64			64	l		65	l		58	į		70
AVG lur base Kft	ĺ		5.6			5.2	ĺ		5.0	•		5.6	١.		€. €

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT C	CCURRENCE	Ϋ́I	ARL'	7	J	H-H	1R	Af	PR-JI	JN	J	JL-51	P	00	T-DE	<u>г</u> с ¬
		day	nit	din	Jay	n1 t	d&n	day	215	d&n	day	nit	der	dau	nit	dan
8 to 1	10 Feet	3	2	3	5	4	5	4	3	3	2	1		2	2	2
10 to 2	20 Feet	2	4	3	3	4	3	3	4	4	2	4	ż	í	3	2
2 <u>0 to 3</u>	38 Feet	4	_ 6	5	4	7	- 6	4	7	5	4	_ 5	4	3	5	_ 4_
30 to 4	18 Feet	5	8	7	6	10	8	6	9	3	5	6	5	5	7	ō
40 10 5	58 Feet	9	14	12	10	15	13	10	15	13	9	13	11	j e	12	10
<u>50 10 6</u>	58 Feet	12	18	15	12	18	15	13	18	15	13	20	16	11	16	14
68 to 7	70 Feet	13	16	14	13	15	14	11	14	13	13	18	16	13	17	15
70 to 8	30 Feet	10	12	11	11	11	11	8	9	9	9	12	11	13	15	14
80 to 9	90 Feet	7	6_	7	7	5	6	_ 6	5	_ 5	_ 6	- 6	- 6	<u> 1</u> 0	8	_ 9
98 to 1	00 Fest	4	3	4	4	3	4	4	2	3	4	3	3	6	5	- 6
above 1	100 Feet	30	11	20	24	8	15	32	13	23	35	13	24	27	18	.5
Hean her	ight Feet	91	65	78	81	60	70	93	66	79	100	70	85	98	67	78

PARAMETER	YEARL	Y	JA	H-116)R	AF	R-J	UH	J,	JL-SE	P	00	T-DE	C
	day nit	dån	day	nit	din	day	nit	dar	day	nit	dan	day	nıt	den
% occur EL&SB dcts		2			З			1			i			3
% occur 2+ EL dcts	ĺ	15	ļ		17			18	İ		9	l		17
AVG station N		365	ł		353			366			379	i		300
AVG station -N/Kft		17	ł		16	İ		18			18			16
AVG sfc uind Kts	12 12	12	14	13	14	12	11	11	10	10	10	14	13	13

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 25 48 N 80 16 W (+) INDICATES INSUFFICIENT DATA

Radiosonde source: 72202 25 48 N 80 16 H Radiosonde station height: 13 Feet

Surface obs source: MS81 25 80 N 85 80 N

PERCENT OCCUPPENCE OF ENHANCED SUPPACE-TO-SURFACE PATIAD/ESH COM RANCES:

PERCENT OCTORPENCE	<u> </u>	MANA	CLD.	JUNE		. 0 - 3	UKFIN	<u> </u>	IDITE			COM	363.		
FREQUENCY	Y	EARL	Υ	J	AH-H	AR	AI	PR-JI	JH	- 31	UL-SI	EP	0	CT-DI	EC
	dav	nit	d&n	day	nit	dûn	day	nit	d&n	day	nit	den	day	nit	dîn
100 NHz	1	9	1	1	8	. 8	1	9	1	1	1	1	1	1	1
1 GHz	32	13	22	26	9	17	35	14	25	38	15	26	30	12	21
3 GHz	44	22	33	38	17	27	45	22	34	47	24	36	46	25	36
6 GHz	78	67	72	73	59	66	75	63	59	81	72	77	82	73	77
18 GHz	91	89	98	89	85	87	99	87	89	93	91	92	93	91	92
20 GHz	95	94	95	93	92	92	94	93	94	97	96	97	96	96	96

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SURFACE BASED DUCT SUMMARY: APR-JUN PARAMETER YEARLY JAK-HAR JUL-SEP OCT-DEC dav nit d&n dav nit dan day nit din day nit din day nit den Percent occurrence 3 5 6 AVG thickness Kit .49 .57 . 40 .53 . 44 AVG trap freq GHz .62 .64 . 52 .61 . 63 AVG lyr and -H/Kft 113 98 79 144 139

ELEVATED DUCT SUMMARY:

Server produced a construct and the server of the server product and server and the server server and server server and server s

PARAMETER	Y	EARL'	Y	J	AN-H	RR	RF	R-J	JN .	-31	JL-SI	ĘΡ	00	CT-DI	EC
	day	nit	din	day	nit	den	day	nit	d£n	day	nıt	der.	day	nit	ರಹಿಗ
Percent occurrence	47	44	45	58	53	56	48	41	45	30	23	27	53	57	55
AVG top ht Kft	l		6.0			5.6			6.3	Ì		5.5			6.6
AVG thickness Kft			. 45	•		. 50			. 44	1		.37	ŀ		.51
AVG trap freq GHz			.36			.27			.36			. 55			.26
AVG lyr grd -N/Kft			62	l		62			68			59	!		65
AVG lyr base Kft			5.7	1		5.2			6.0	!		5.2	!		6.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCC	URRENCE	YI	EARL	Y	31	M-MA	RR	A	PR-J	UH	J	VL-S	EP	0	CT-DI	EC .
			day	nit	d₽n	dau	nit	ರ೩೧	day	nit	d&n	day	n11	den	day	711	din
8 to	10	Feet	3	2	3	5	4	5	4	3	3	2	1	1	2	2	2
18 to	20	Feet	2	4	3	3	4	3	3	4	4	2	4	3	1	3	2
20 10	30	F€₹ŧ	4	6	5	4	_ 7	6	4	?	_ 5	4	5	4	3	5	4
39 to	48	Feet	5	8	7	6	10	8	6	9	8	5	6	5	5	7	5
40 to	58	Feet	9	14	12	10	15	13	10	15	13	9	13	11	8	12	10
50 10	60	Feet	12	18	15	12	18	15	13	18	15	13	26	16	11	16	14
60 to	76	Feet	13	16	14	13	15	14	11	14	13	13	18	1€	1.3	17	15
70 to	80	Feet	18	12	11	11	11	11	8	9	9	9	12	11	13	15	14
30 to	90	Feet	7	6	7	7	5	6	6	5	5	6	6	6	1 10	8	9
90 to	160	Feet	4	3	4	4	3	4	4	2	3	4	3	3	6	5	- 6
above	100	Feet	30	11	20	24	8	16	32	13	23	35	13	24	27	10	19
Hean he	1gh	t Feet	91	65	78	81	60	76	93	66	79	168	70	85	90	67	78

CENEDAL METEODOLOGY CHRMADY.

PARAMETER	YER	RLY	'	J	AH-M	RP -	£.F	R-J	111	31	JL-SI	EΡ	00	T-DI	C
	day	111	din	day	nit	dtn	day	nit	ರಕ್ಕ	day	011	dt n	da	nit	d٠
% occur EL&SE dcts	i		2			1			2			2			1
% occur 2+ EL dcts	ŀ		9	l		10	ļ		10			4			11
AVG station H			362	ł		345	l		367	i		379	1		356
AVG station -H/Kft	Ì		16			14	İ		17			18			16
AVG Ife wind ris	12	12	12	14	13	14	12	11	11	10	10	10	14	13	13

IPEPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 27 58 N 82 31 H (+) INDICATES INSUFFICIENT DATA

Padrosonde source: 72211 27 58 N 82 31 W Radrosonde station height: 26 Feet

Surface obs source: MS81 25 00 N 85 00 H

PEDCENT ACCHIPPENCE OF ENHANCED SUPERCE-TA-SUPERCE PARAD/FSM CON PANCES:

PERCENT OCCUPRENCE	UF E	HUVH	CER_	DURF	MCE-	10-2	UFFR	CE P	UNUK	E 30	CON	F 27.4	353.		
FREQUENCY	Y	EARL	Y	J	AK-H	AR	A	PR-J	UH _	J	UL-51	EP	0	CT-DE	ΕC
	day	nıt	d&n	day	nit	d&n	day	n15	d&n	day	nit	din	day	nıt	din
100 MHz	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1
1 GHz	33	14	24	27	11	19	36	16	26	39	18	29	31	12	22
i 3 GHz	45	24	35	39	19	29	45	24	35	48	28	38	47	26	36
6 GHz	78	68	73	74	61	67	75	64	78	81	74	77	82	73	?7
10 GHz	92	83	90	89	35	87	90	87	89	93	92	93	94	91	92
20 542	Í 95	94	95	93	92	93	94	94	94	97	97	97	96	96	36

SUPERCE RASED DUCT SUMMARY:

PARAMETER	Y	EARL'	Ÿ	J	AH-H	AR	A	R-J	JN	1	UL-SI	ΕP	01	CT-DI	EC
	đay	nit	din	day	nit	d&n	day	nit	đền	day	nit	din	day	nit	den
Percent occurrence	8	- 6	7	8	5	7	8	- 6	7	8	9	3	8	5	7
AYG thickness Kft	Į.		.44			.43	1		.47	İ		.47	ļ		.38
AVG trap freq SHz	l		.58	Į		. 57	ı		.59	ļ.		. 44	ļ		.71
AVG lyn grd -N/Kft	_		103	i _		126	l		85	l		114	l		105

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	J	AH-H	AR	A	PR-J	JH	Jŧ	JL-Si	EP	00	T-DI	ĒĀ.
	day	nit	d&n	day	nit	d£n	day	nit	dŁn	day	nit	din	day	316	dt 1
Percent occurrence	47	44	45	55	46	51	48	45	47	38	28	29	54	56	55
AVG top ht Kft	i		5.8	İ		5.5	(5.5			6.2			6.1
AVG thickness Kft	L		. 45			.48	l		. 47			. 40			.45
AVG trap freq GHz			.33			.36			.33			.40			. 30
AVG lyr grd -N/Kft	i		62	í		62	ĺ		63	İ		57	j		64
AVG lun base Yft			5.5	<u> </u>		5.1	l		5,2			5.9	l		5.7

EVAPORATION DUST HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCUPPENCE	Y	EARL'	Y	3	AH-M	RR	A	PR-J	JN _	J	JL-51	EP	01	CT-D8	C
		day	nit	d£n	day	rit	d&n	day	612	d&n	day	rit	din	day	nıt	dan
8 to	10 Feet	3	2	3	5	4	- 5	4	3	3	2	1	1	- 2	2	2
10 10	20 Feet	2	4	3	3	4	3	3	4	4	2	4	3	1	3	2
28 to	30 Feet	4	- 6	5	_4	7	_ 6	4	7	5	4	5	4	3	5	4
30 to	40 Fzet	-5	8	7	6	10	8	6	9	8	5	6	- 6	5	7	- 5
40 to	50 Feet	9	14	12	10	15	13	10	15	13	9	13	11	٤	12	19
58 to	60 Feet	12	18	15	12	18	15	13	18	15	13	20	16	11	16	14
68 to	70 Feet	13	16	14	13	15	14	11	14	13	13	18	16	13	17	15
70 to	80 Feet	18	12	11	11	11	11	8	9	Ģ	9	12	11	13	15	14
80 to	98 Feet	7	6	7	_ 7	5	6	6	5	5	ē	6	- 6	10	8	9
99 to	100 Fect	4	3	4	4	3	4	4	2	3	4	3	3	6	5	6
above	100 Feet	39	11	28	24	8	16	32	13	23	35	13	24	27	10	19
Hean he	ight Feet	91	65	78	81	60	78	93	66	79	100	70	85	93	_67	78

PARAMETER	YEARLY	JAN-MAR	APP-JUN	JUL-SEP	GLT-DEC
	day nit dan	day nit den	day nit dan	day nit din	day nit den
% occur EL&SB dcts	2	2	2	2	3
% occur 2+ EL dcts	11	12	13	6	11
AVG station N	355	336	360	378	345
AVG station -N/Kft	16	15	18	19	15
AVG sfc uind Kts	12 12 12	14 13 14	12 11 11	10 10 10	14 13 13

25 54 H 97 25 H Specified location: Radiosonde source : 72250 25 54 N 97 25 4

23 Feet Radiosonde station height:

25 00 H 95 00 H Surface obs source: MS82

DEDCENT ACCURRENCE OF ENGLICES CHREAFE_TO_CHREAFE DATAR /ECH FOM DAMFEC.

REMIENT OFFORMENTE															
FREQUENCY	YI	EARL	Y	Ji	AN-KI	RR	l e	PR-J	ווע	J	ا£+5ا	EP ,	0	CT-DI	EC
L	day	nit	dŁn	day	nit	d&n	day	១11	dtn	day	nit	dan	day	nit	dan
100 MHz	8	1	1	0	1	1	1	1	1	1	Ю	1	9	1	1
1 GHz	28	11	19	19	10	14	28	10	19	37	11	24	27	13	29
3 GHz	38	_ 20	29	26	16	_ 21	35	15	25	48	22	_35	42	26	34
6 GHz	78	59	64	57	45	51	62	46	54	81	75	78	79	69	7.4
10 GHz	86	82	84	76	72	74	82	75	79	94	93	93	91	89	90
28 GHz	91	90	98	83	82	82	88	86	87	97	97	_ 97	95	94	95

(*) INDICATES INSUFFICIENT DATA

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PARAMETER	YE	ARL	Ÿ	3	BH-M	AR.	AI	PR-J	UN	J	JL-SI	ΕP	0	T-DI	EC
	day	nit	dt .	day	nıt	din	day	nit	dan	day	nit	dtn	day	nit	dtn
Percent occurrence	4	5	5	1	8		6	5	6	6	2	4	2	6	4
AVG thickness Kft	i		.47	l		.51	ŀ		. 53			.31	ļ		. 54
AVG trap freq GHz	l		.80	i		.68	!		1.0			. 92	l		. 63
AVG lyr grd -H/Yft	İ		194	ļ		104	l		97			120			96

PARAMETER	Y	ERRL	Y	- 31	RH-M	AR .	ai	-K-11	אנ	5	JL-SI	P	00	7-51	EC
	day	nıt	dtn	day	nit	den	day	nst	den	day	nit	den	day	rit	dtn
Parcent occurrence	45	55	58	53	58	56	46	61	54	32	40	36	48	61	55
AVG top ht Kft	ł		4.3	ļ		4.4			4.6	l		3.5			5.2
AVG thickness Kft			.59	l		.66			.66	1		.52			.54
AVG trap freq GHz			.23			.16			.18			.31			.26
3VG lyr grd -N/Kft			62	1		66	ĺ		63	1		58	i		60
AVG lyr base Kft	Ī		3.9	l		4.0			3.6	1		3.1	ĺ		4.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PERCENT	OCC	URRENCE	Y	PRLY	*	J	AH-M	R R	A!	PR-J	JH	3:	ひとーちに	Ē₽	Č	T-DE	EC
			day	nit	dtn	day	nit	den	day	nit	dan	day	nit	den	day	nit	dan
0 to	10	Feet	6	- 6	6	13	13	13	8	8	- 8	1	1	1	4	3	3
10 10	20	Feet	3	5	4	4	7	6	5	7	6	2	2	2	2	3	2
29 10	30	Feet	5	8	7	7	11	. 9	[7	11	9	3	4	4	4	5	5
30 to	48	Feet	7	10	9	9	13	11	9	14	12	5	6	5	5	8	7
48 10	50	Feet	10	14	12	11	16	13	12	16	1+	9	12	18	8	14	11
50 to	68	Feet	12	16	14	13	14	13	12	16	14	12	1 7	15	11	15	13
68 10	70	Feet	12	14	13	11	11	11	10	18	10	13	21	17	13	16	15
79 to	88	Fest	9	10	10	ε	6	7	6	6	قو	9	1+	12	13	:4	:3
88 10	90	Fees	6	5	5	4	3	_ 4	₹.	3	3	7	7	7	9	8	8
90 tc	100	Feel	4	3	3	3		— 2	2	2	2	4	4	4	0	- 5	- 5
abovz	100	Test	26	а	17	18	6	12	26	7	17	35	16	23	26	10	18
Hean he	e gh	Feet	84	58	71	67	47	57	30	52	66	100	69	84	97	65	76

PARAMETER	YEARLY		Jf	ili-Hi	38	AF	₹-Jl	314	3.	-S	ĒΡ	ŏ	T-DI	EC
	day nit	den	day	rit	den	day	nit	din.	day	r1:	dtr	day	nıt	din
% occur EL&SB dcts		2			1			2			2			2
% occur 2+ EL dcts		10	Į .		12	İ		14			6	l		9
AYG station N		359			342	ļ		369			374	1		349
AVG station -N/Kft		17	ł		15			19			19	!		15
AVG afc wind Fis	13 13	13	15	14	15	12	12	12	10	11	11	14	14	_14_

IREPS REV 2.1 HISTORICAL PPOPAGATION CONDITIONS SUMMARY

23 10 H 105 25 H (*) INDICATES INSUFFICIENT DATA Specified location:

Radiosonde source : 76458 23 10 N 105 25 H

Radiosonde station height: 13 Feet

Surface obs source: MS83 25 80 N 105 00 H

	PERCENT OCCURPENCE	UP E	NANN	ren .	SUKF	<u>nle-</u>	10-5	UKFR	FE_51	HUNK	, E 2 L	COM	- 11/1	JE5 :		
	FREQUENCY	Y	EARL	Y	J	AH-H	BR	RI	PR-JI	Jt:	Ji	JL-SE	P	31	CT-DE	ĒČ
		day	nıt	<u>dŧ</u> n	day	nit	_d&n	day	nit	dan	day	nit	dŧn	day	nit	dzn
1	100 MHz	10	6	8	13	-6	9	13	7	10	7	4	5	9	6	8
ŀ	1 GHz	61	27	44	63	25	44	66	31	49	57	26	41	59	28	43
į	3 GHz	70	34	52	71	31	_ 51	75	37	56	66	33	49	73	36	53
	6 GHz	87	60	73	87	55	71	88	57	72	83	60	72	89	67	
ļ	10 GHz	95	85	98	96	84	90	95	84	89	92	83	88	-5	89	92
	20 GHz	97	92	95	97	92	94	97	91	94	96	91	93	98	95	9.

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	J	คห-หเ	AR	RI	R-J	JH	31	JL-SI	Ρ	00	T-DI	EC .
l	day	nit	<u>d£n</u>	day	nít	dŁn	day	nit	din	day	nit	CZO	dav	nit	dan
Percent occurrence	49	27	38	51	25	38	63	32	48	38	23	31	43	29	36
AVG thickness Kft	l		. 57	l		.58	i		.69			.42	i		.59
AVG trap freq GHz	1		. 36	[.26			. 34			. 49	[>
AVG lur grd -N/Yft	L		103	L		105			182			104	<u> </u>		183

FLEVATED DUCT SUMMARY:

PARAMETER	- 41	ERRL'	Υ	Ji	ท-หก	1R	Ai	R-J	UH	Jŧ	JL-SI	EP T	O	T-DE	EC
	day	nit	d&n	day	nit	dtn	day	nit	dån	lday	nit	dan	day	nit	dan
Percent occurrence	33	55	44	27	60	44	33	71	52	32	34	33	39	55	47
AVG top ht Kft			2.8			2.3			3.2			3.1			2.3
AVG thickness Kft	L		.63	<u> </u>		. 52	L		.76			.60			. 52
AVG trap freq GHz			.21			.27			.13			.23			.32
AVG lyr grd -N/Kft	ļ		63	ļ		61	ì		69	İ		59			62
AVG lyr base Kft			2.4	1		1.9	}		2.7	i		2.6			2.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURREN	E Y	ERRL	Y	j J	AH-M	AR	AF	R-J	314	Jı	JL-SI	EP	Ō	T-DE	C
	day	nit	dan	day	nit	din	day	nit	den	day	nit	don	day	nit	dtr
0 to 10 Feet	4	3	4	3	3	3	- 5	5	5	5	3	4	2	1	2
18 to 28 Feet] 2	7	5	3	?	5	3	7	5	2	8	5	2	5	4
20 to 30 Feet	5	16	7	3	11	7	5	_11	- 8	5	10	_ 3	5	3	
30 to 40 Feet	6	15	11	7	18	12	7	18	12	5	12	9	4	13	9
40 to 50 Feet	9	19	14	10	28	15	12	22	17	9	16	12	7	18	13
50 to 60 Feet	<u> </u>	1~	14	12	16	14	_13	15	14	10	17	13	11	19	15
60 to 70 Feet	10	11	10	11	10	10	9	8	8	9	11	10	11	13	12
70 to 80 Feet	7	6	6	8	6	7	5	3	4	6	5	5	8	8	٥
80 to 98 Feet	4	2	3	4	2	3	3	1	2	4	_ 2	3	6	3	4
90 to 100 Feet	3	1	2	3	1	2	2	1	2	3	1	2	5	2	3
above 180 Feet	39	9	24	36	€	21	36	9	22	42	13	27	40	8	24
Hean height Fee	101	56	78	99	51	75	95	52	74	106	61	84	105	58	۹;

PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit den	day nit dan	day nit dan	day nit den	day nit dan
% occur EL&SB dcts	8	7	18	7	10
% occur 2+ EL dcts	8	6	13	5	ક
AVG station N	364	344	362	386	3(5
AVG station -N/Kft	23	22	25	21	23
AVG sfc wind Kts	10 9.4 10	10 10 10	10 10 10	9.8 8.7 8.8	10 9.0 9.5

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(*) INDICATES INSUFFICIENT DATA 29 10 N 118 19 H Specified location: 29 10 N 118 19 H Radiosonde source: 76151

Radiosonde station height: 75 Feet Surface obs source: MS84 25 00 N 115 00 H

PERCENT_OCCURRENC	E OF E	нани	CED :	SURF	ACE-	TO-51	URFAI	CE PI	RAGE	ESM	COM	PAN	GES:		
FREQUENCY	Y	EARL	Y	J	AN-H	AR	A!	PR-JU	UN	JI	JL-SI	ĒΡ	01	CT-DI	EC -
	day	nit	dan	day	nit	d&n	day	nit	d&n	day	nit	dan	day	nit	dan
100 MHz	5	2	3	3	2	3	5	3	4	4	2	3	7	3	5
1 GHz	39	15	27	34	16	25	36	13	24	40	15	27	46	16	31
3 GHz	46	19	32	41	20	31	41	15	28	_47	19	33	55	21	38
6 GHz	66	37	52	63	40	52	59	27	43	66	35	59	75	47	61
10 GHz	85	72	79	86	74	80	82	66	74	83	68	7€	91	21	36
20 GHz	91	87	89	93	89	91	89	85	87	89	84	87	95	91	93

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y .	Ji	AH-M	AR -	A	R-JI	ЯL	J	UL-SI	EP	01	CT-DI	EÇ
	day	nıt	d&n	day	nit	dan	day	nit	dan	day	nit	d&n	day	nit	d٤٠
Percent occurrence	23	13	18	17	13	15	16	9	13	22	14	18	35	14	25
AVG thickness Kft			.70	l		.56	į		.77	l		.88	i		.59
AYG trap freq GHz			. 42	l		.49	1		.21	l		.59	ł		.39
AVG lyr grd -H/Kft			118			143			107	1		116	i		106

ELEVATED DUCT SUMMARY:

PARAMETER		EARL'			AN-MI			R-JU			JL-SI			T-DE	
	day	ភារ	din	day	การ	d&n	day	nıt	d&n	day	211	dŧn	day	nit	dtn
Percent occurrence	66	66	66	56	68	58	88	80	80	71	75	73	56	50	53
AVG top ht Kft			2.8			3.3			2.6			2.6	ł		2.6
AVG thickness Kft			.79			.54	L		.93			1.0			.69
AVG trap freq GHz		-	.13			.23			.08			.07			.14
AVG lyr grd -N/Kft			74			69			85			75			69
RVG lyr base Yft			2.3	<u> </u>		2.9			2.2			2.0	L		2.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCI	URRENCE	11	ERPL'	Y	į J	H-H	46	R	PR-JI	JN	J1	リレーS	ĘΡ	0	CT-DI	EC
			day	nit	d&n	day	nıt	den	day	nıt	dan	day	210	dtr	Jay	nit	din
0 to	10	Feet	7	6	6	5	4	4	8	6	7	10		9	4	3	4
10 to	20	Feet	4	9	7	4	8	6	5	10	7	5	10	7	4	7	5
20 to	30	Feet	8	17	13	8	17	13	9	22	15	8	18	13	6	12	9
30 to	40	Feet	11	21	16	12	21	17	13	24	18	16	20	15	10	19	15
40 10	50	Feet	13	18	16	14	18	16	14	18	1€	11	18	14	13	19	15
50 to	60	Feet	11	11	11	11	12	12	11	9	10	10	10	10	13	:5	14
60 to	78	Feet	8	6	7	8	6	?	7	3	5	7	5	ε	9	9	- 9
78 to	89	Feet	5	3	4	5	3	4	4	2	3	5	2	3	7	5	6
80 to	98	Feet	3	1	2	3	2	2	2	1	2	3	1	2	4	2	3
78 to	100	Feet	2	1	1	2	1	1	2	1	1	2	1	1	3	1	2
above	100	Feet	27	7	17	26	8	17	25	5	15	31	7	19	27	7	17
Hean he	1 gh1	Feet	89	46	63	80	50	65	76	41	58	83	43	63	84	52	68

PARAMETER	Y	ERRL	Υ	31	H-HF	AR	Al	R-JI	JH	Jŧ	JL-S	ΕP	00	T-D	EC
	day	nit	dtn	day	nit	d&n	day	nit	d&n	day	nit	d\$n	day	nit	dt n
% occur EL&SB dcts			4			5			2			3			₄ -
% eccur 2+ EL dcts			9	ļ .		5	ł		9			16	1		6
AVG station N			339			331	i		337			348	l		339
AVG station -N/Kft			22	ŀ		17			24			25	i		21
AVG sfc wind its	12	11	11	12	11	11	13	13	:3	11	11	11	1 11	11	11

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMAPY

Specified location:

25 00 N 125 00 W (*) INDICATES INSUFFICIENT DATA

Radiosonde source: 76151 29 10 N 118 19 H Radiosonde station height: 75 Feet

Surface obs source: MS85 25 00 N 125 00 H

PEDIENT OCCUPAENCE OF FHHANCED SUPFACE-TO-SUPFACE RADAR/ESM/COM PANCES.

	PERCENT OCCUPRENCE	Or E	MILLIA	CED .	JURE	nt E -	10 3	URFIL	<u> </u>	חשמר	E30	CON	KINN	323.		
ſ	FREQUENCY	7 7	EARL	Ÿ	J	AN-MI	ar -	A	PR-J	UN	J	UL-SI	EP	0.	LT-DE	EC]
1		day	nit	dan	day	nit	d&n	day	nit	d&n	day	nit	dan	day	การ	d:n
ſ	100 MH±	5	2	3	3	2	3	5	3	4	4	2	3	7	3	- 5
١	1 GHz	35	13	24	28	12	20	34	11	23	36	14	25	41	14	27
1	3 GHz	42	17	29	<u>i 35</u>	_16	25	49	14	27	43	18	31	49	18	<u>,4</u>
Ţ	6 GHz	65	39	52	61	39	50	63	33	48	64	37	51	73	47	60
ı	10 GHz	88	88	84	87	89	84	88	77	82	86	77	81	92	84	93
ı	20 GHz	94	92	93	94	93	93	93	91	92	93	90	91	96	95	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YERKI.	Y	J	RH-H	ar -	AI	R-J	UH	31	JL-SE	P	00	T-D:	<u> </u>
	day nit	d&n	day	nit	d&n	day	nit	d&n	day	กาะ	dan	day	nit	dan
Percent occurrence	23 13	13	17	13	15	16	9	13	22	14	18	35	14	-25
AVG thickness Kft		.70	ı		.56	ļ		.77			. 88	!		.59
AVG trap freq GHz	ł	.42			.49	l		.21			.59			.39
AVG lun grd -H/Yft		118	Ĺ		143	Í		197			116			10€

FLEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	r	J	RH-M	AR .	AF	PR-JI	ИL	Ji	JL-SI	P	- 00	T-Di	C -
	day	nit	d&n	day	nıt	dŁn	day	níł	d&n	day	กาเ	d&n	day	nıt	dt n
Percent occurrence	66	66	66	56	68	58	80	80	80	71	75	73	56	50	=:
AVG top ht Kft			2.8	ĺ		3.3			2.6	l		2.6	ļ		2.6
AVG thickness Kft		_	.79			. 54			.93	1		1.0	Ì		. 69
AVG trap freq GHz			.13			. 23			.08			.87			.14
AVG lyr grd -H/Kft			74			69	Ì		85	l		75			67
AVG lyr base Kft_			2.3	L		2.9	i	_	2.2	ĺ		2.0	í		2.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PERCENT OCCURRE	ICE Y	EARL	Y	31	AN-M	AR	A!	PR-JI	Jh	J:	اڌ -ساد	EP_	- 00	7-DE	Ü
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	dtn	day	nit	d&n
0 to 10 Fee	. 7	3	4	4	3	_3	4	3	3	6	4	5	3	1	Ξ.
10 to 20 Fee	: 3	: 6	5	3	5	4	4	6	5	4	7	€	3	4	4
20 to 30 Fee		14	11	3	14	11	_7	16	12	8	16	12	_ 7	12	
30 to 40 Fee	12	22	17	13	23	18	13	26	19	11	23	17	10	18	14
40 to 50 Fee	17	23	28	19	24	22	16	23	20	16	22	19	17	24	21
50 to 60 Fee	1-	15	15	16	16	16	13	14	13	13	13	_ 13	_16	20	18
60 to 70 Fee	. 7	6	8	9	€	8	9	- 5	7	7	5	- 6	11	9	ิ เฮ
70 to 80 Fee	. j 6	3	4	5	2	4	5	2	4	5	2	3	?	4	5
80 to 90 Fee	_ _3	<u> 1</u>	2	3	1	2	_3	1	2	3	1	2	3	2	2
90 to 100 Fee	. 7	1	i	2	1	1	2	1	1	2	1	1	2	1	1
above 100 Fee	: 22	: 4	13	19	4	11	24	4	14	26	6	16	21	4	12
Hean height Fe	r 76	47	61	71	46	58	77	44	61	79	46	63	76	58	63

PARAMETER	YEARL	7	JF	IN-Mi	R:	RP	R-JI	JN	J١	JL-SE	F	00	1-D5	Ĉ
L	day nit	d&n	day	nit	dan	day	nit	d&n	day	การ	dzn	day	n't	dt i
% occur EL&SB dcts		4	i		5			2			3			4
% occur 2+ EL dcts		9	1		5			9			16	l		6
AVG station N		339	1		331	l		337			348			339
AYG station -N/Kft		22	1		17	-		24			25	ĺ		21
AVG sfc usnd Kes	13 12	12	13	13	13	13	13	13	12	11	12	13	12	12

HISTORICAL PROPAGATION CONDITIONS SUMMAPS IREPS REV 2.1

(*) INDICATES INSUFFICIENT DATE 25 00 N 135 00 W Specified location: 30 00 H 140 00 H Radiosonde source : 4YN Radiosonde station height: 39 Feet

<u>:</u>

ij

Surface obs source: MS86 25 00 N 135 00 W

PEPCENT OCCURPENCE	Jr E	инни	<u>.EU :</u>	DURFI	HLE-	0-3									
FREQUENCY	Y	EARL'	·	JI	AN-Mi	ar 💮	l ar	R-JU	JH	J	UL-SI	EP	00	CT-Di	EC
	day	nıt	dan	day	nit	d&n	day	nit	dan	day	nit	<u>dt</u> n	day	กาะ	dtr
100 MHz	3	0	2	3	1	2	2	1	1	3	- 0	2	1	0	1
1 GHz	34	8	21	38	8	19	35	8	21	42	10	26	28	6	17
3 GH≥	43	12	27	48	12	26	42	12	27	50	14	32	38	10	24
6 GHz	71	45	58	68	44	56	69	42	56	75	46	60	71	49	60
10 GHz	98	83	87	89	81	85	98	83	87	91	84	87	98	86	દક
28 GHz	95	93	94	94	91	93	95	94	94	95	93	94	95	94	95

SURFACE BASED DUCT	SUMMHRY:												
PARAMETER	YEARLY		JAN-M	RR	RF	R-JU	HL	31	UL-SI	EP	0.	CT-DE	EC
!	day nit o	lan d	ay nit	d&n	day	nit	ď&n	day	1111	d&n	day	nit	dtn
Percent occurrence	20 3	12 2	22 5	14	17	4	11	25	-2	14	15	2	9
AVG thickness Kft		36		. 29	!		.36			. 45	l		.33
AVG trap free GHZ	1 1	.0		.81	1		.75			.82			1.7
AVG lyr grd -N/Kft	! 1	15		67			88			149			157

PARAMETER	Y	EARL'	Y	Ji	าห-หก	R.	A	PR-JU	JK	31	JL-SI	EP	- 06	CT-DE	EC
	day	nit	d&n	day	nit	d&n	day	nit	dan	day	nit	den	day	nıt	dtn
Percent occurrence	47	66	57	38	57	48	51	67	59	53	68	61	47	71	59
AVG top ht Kft	1		5.2	ł		5.2	l		5.8	ļ		5.5	1		5.3
AVG thickness Kft	_		.61	1		. 57	L		.59			.66			.63
AVG trap freq GHz			.18	ľ –		.20			.18			.16			.18
AVG lyr and -N/Kft	1		68	l		66	l		69	į		71			€8
AVG lyr base Kft	ļ		4.9	i		4.8	!		4.7			5.1			4.9

EVAPOPATION BUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCUR	RENCE	YEARL	Y	31	RH-MI	3R	A.	PR-JU	JN	31	JL-SE	EP	01	CT-DE	EC
	da	y nit	dtn	day	nit	d&n	day	nit	d&n	day	nit	den	day	nit	dt n
0 to 10 Fe	et	4 3	3	4	4	4.	4	2	3	4	-2	3	3	2	3
10 to 20 Fe	et	3 5	4	4	6	5	2	5	4	3	5	4	3	4	3
20 to 30_ Fe	eet	6 10	_ 8	7	11	9	6	11	8	5	10	8	6	. 9	7
30 to 40 Fe	2et	9 17	13	10	17	13	9	19	14	8	16	12	9	15	12
40 to 50 Fe	et 1	4 22	18	15	21	18	15	24	19	12	22	17	13	22	18
50 to 60 Fe	et 1	4 18	16	14	18	16	13	18	16	13	18	15	14	19	16
60 to 70 Fe	eet 1	1 10	11	12	10	11	18	9	10	19	9	10	13	13	13
70 to 80 Fe	et	7 6	7	8	5	6	6	5	5	7	€	6	9	7	8
80 to 98 Fe	ret _	4 2	3	4	2	3	3	2	3	3	2	3	5	2	4
90 to 100 Fe	Pet	3 1	2	3	1	2	2	1	2	3	1	2	3	1	2
above 100 Fe	et 2	6 6	16	21	5	13	28	6	17	33	9	21	23	5	14
Hean height f	Feet 8	3 53	68	75	50	63	85	52	68	91	57	74	81	54	68

PARAMETER	ΥE	ARL	Y	J1	H-HE	98	AF	R-J	UN	JU	JL-SI	EP	00	T-DE	EC
	day	nıt	din	day	nit	dan	day	nit	dtn	day	011	d&n	da	nit	d&n
% occur EL&SB dcts			4	i		3			5			6			2
% occur 2+ EL dcts	l		5	l		3]		4			7	l		5
AVG station N			346	l		339	i		342	ļ		355	ĺ		346
AVG station -N/Kft			15	l		15	i		15			17			16
AVG sfc wind Kts	14	13	13	15	14	14	13	13	13	12	. 12	12	14	13	14

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

Specified location: 25 00 N 145 00 H (+) INDICATES INSUFFICIENT DATA Radiosonde source: 4YN 30 00 N 140 00 H Radiosonde station height: 39 Feet

Surface obs source: MS87 25 00 N 145 00 W

DEDICENT OCCUPRENCE OF ENHANCES CHREACE TO CHREACE DASS FOR COM DANCES.

•	WCFILL OCCOUNTS	· · ·		<u> </u>	,,,,,			J ,,				~~	*****	<u> </u>		
Г	FREQUENCY	Y	EARL	Y	J	AN-M	P.R	AI	-JI	ÜN	J	JL-SI	P	ũ,	T-DI	ĒČ
ĺ.,		day	ni t	d&n	day	nit	d&n	day	nit	d&n	day	nit	dan	day	nit	dtn
Г	100 MHz	3	8	2	3	1	2	2	1	1	3	8	2	1	8	$\overline{1}$
Ì	1 GHz	j 34	7	21	29	7	18	36	8	22	45	8	27	28	5	15
	3 GHz	45	13	29	39	13	26	46	12	29	55	13	34	40	12	25
Г	6 GHz	75	53	64	69	49	59	76	51	64	81	5 ₅	69	73	56	65
i	10 GHz	92	87	98	89	83	86	92	88	98	94	89	91	92	89	91
	20 GHz	96	95	95	94	93	94	96	95	95	97	95	96	96	95	76

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL	Y	J	AN-M	AR .	A	R-J	UN	J	JL-SI	P	Ç.	T-D	ī ·
	day	กาะ	din	day	nıt	d&n	day	nıt	d&n	da;∙	nit	d&r	day	nit	dan
Percent occurrence	28	3	12	22	5	14	17	4	1:	25	- 2	14	13	2	\$
RYG thickness Kft			.36	!		.29	!		. 36	j		. 45	1		.33
AYG trap freg GHz			1.0			.81			.75	ł		.82	l		1.7
AVG lyr grd -II Kft	L		115			67			88	<u> </u>		149			15.

ELEVATED DUCT SUMMAPY:

PARAMETER	YI	EARL'	Y	Ji	111-116	RR	RF	R-J	JN	71	JL-SI	Р	Ö	T-DI	EC
	day	nıt	dŧn	day	nıt	d&n	day	nit	đěn	day	r11	dani	day	nit	_140
Percent occurrence	47	66	57	38	57	48	51	67	59	53	68	61	4.7	71	59
AVS top ht Kft			5.2	İ		5.2			5.0			5.5			5.3
AVC thickness Kft			.61			.57			.59			.66			.63
RVS trap freq GHz			.18	i -		.28			.18			.16			.18
RYG lyr grd -H/Kft	i		68	1		66			€9			71			68
AVG lyr base Kft	L		4.9	L		4.8			4.7			5.1			4.9

E-APORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PEPCENT	OCCI	URRENCE	۲(ARL	1	7	AH-M	ลล	Al	PR-JI	JN	J	UL-S!	ΕP	0:	T-Di	Ú.
			day	nit	dan	day	nit	ವಹಿಗ	day	nit	dan	day	nit	dår	day	nit	d£n
0 10	10	Feet	3	2	2	4	3	4	3	2	2	3	1	- 2	2	2	
18 to	20	Feet	2	4	3	4	5	4	2	3	3	2	4	3	2	3	3
20 to	30	Feet	_ 5	7	_6	7	10	8	4	7	6	_ 4	5	5	[<u></u>	- 6	5
30 to	48	Feet	8	14	11	10	16	13	7	15	11	6	12	9	8	12	10
40 to	59	Fe€t	12	21	17	14	28	17	12	23	18	11	21	16	13	21	17
50 to	69	Feet	13	21	17	14	19	16	14	21	18	12	22	17	14	21	17
68 to	78	Feet	12	13	13	12	12	12	12	12	12	10	14	12	13	15	14
78 10	88	Feet	9	8	8	9	7	8	9	7	8	8	8	8	10	9	: 3
80 to	90	Feet	5	3	4	5	3	4	_5	2	4	5	3	4	6	5	5
90 to	100	Feet	- 4	2	3	3	1	2	3	1	2	4	2	3	4	2	3
above	100	Feet	27	5	16	19	5	12	29	6	17	36	7	22	23	4	14
Mean he	ight	Feet	86	_55	71	72	52	62	98	55	73	99	59	79	81	56	દવ

PARAMETER	YE	ARLI	7	71	H-H	ar -	AF	R-J	JN	Ju	L-SE	Ρ	30	.T-D	ί
	day	nit	d&n	day	nit	d&n	day	nit	dtn	day.	r;1	dzr	day	nit	dsn
% occur EL&SB dcts			4			3			5			g,			2
% oc.ur 2+ EL dcts			5			3			4			7			5
AVG station N			346	ł		339	Į.		342			355			345
AVG station -N/Kft			15			15			15			17	[16
AVG sfc uind Kis	15	14	14	16	15	16	14	14	14	13	_13	13	15	14	14

Specified location: 21 58 N 159 21 W (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 91165 21 58 N 159 21 H

Radiosonde station height: 118 Feet Surface obs source: MS88 25 80 N 155 80 W

PEPCENT OCCURPENCE OF ENHANCED SURFACE-TO-SURFACE RADAP ESM COM PANGES

FREQUENCY	Y	EARL	Y	Ji	H-H	AR .	Al	PR-J	.94	7	JL-Si	P	700	T-DI	EC
1	day	nit	dan	day	nıt	dŧn	day	nit	den	day	n: 1	den	day	712	dt n
100 MHz	7	1	4	6	ī	3	7	1	4	8	Ø	4	8	1	4
I GHz	47	19	28	39	8	24	48	10	29	56	11	33	46	9	28
3 GHz	J 60	_17	39	51	15	_33	60	17	38	67	19	43	60	19	3.3
6 GH≥	84	63	73	76	55	66	84	61	_ 2	89	5 9	79	85	65	75
10 GHz	95	90	92	92	86	89	95	90	93	97	93	95	96	98	93
28 GHz	97	96	9€	96	94	95	97	96	97	98	97	68	98	95	97

SURFACE BASED DUCT SUMMARY:

SURFACE BASED DUCT S	<u>SUMMI</u>	ARY:													
PARAMETER	71	EARL	Y	J	H-HA	AR	AI	PR-J	UN	J	UL-Si	EP	00	CT-D	EC
 	day	nit	dan	day	nit	d&n	day	nit	dan	day	nit	dan	day	nit	dt es
Percent occurrence	41	4	22	37	4	21	38	4	21	43	2	23	45	5	25
AVG lhickness Kft			. 37			. 34	l		.40	l		.38	ł		. 35
AVG trap freq GHz	i		.51	1		. 60	l		.50	l		.41			.54
AVG lyr grd -N/Kft	<u> </u>		67	L		_67			67	L		71	Ĺ		64

ELEVATED DUCT SUMMARY:

PARAHETER	Ý	EARL'	<i>(</i>	J	H-HI	R.	Al	PR-JI	UH	7	リレージ	EP.	09	CT-DI	EC
	day	nıt	dan	day	nit	dan	day	nit	d&n	Ja	ni*	din:	day	nit	din
Percent occurrence	43	64	53	40	60	50	42	66	54	48	69	59	48	60	58
AVG top ht Kft			6.6	l		6.4	l		6.€	i		6.7	l		6.7
AVG thickness kft			.52			.52	l		.53	1		. 54	ļ .		. 51
AVG trap freq GHz			.26			.26			.26			.26			.29
AVG lyn grd -N/Kft	ĺ		61	ĺ		61	i		65			61	!		58
AVG for base Kft			6.2	ı		6.0	{		6.2	}		6.3	i		6.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	000	URRENCE	11	EARLY	<i>_</i>	J	H-HR	R	R	PQ-JI	JH .	3	JL-Si	Р	0	CT-DE	EC
			day	กาะ	dtn	day	nit	den	day	nit	ď&n	day	n11	dt n	da	nit	dtn
8 to	10	Feet	3	2	2	3	3	3	2	i	2	2	1	2	2	1	2
10 to	20	Feet	2	3	3	1 3	4	4	2	2	2	1	2	2	2	3	3
_ 20 to	30	Feet		6	_ 5	6	_ 8	7	4	6	5	3	4	3	4	5	4
30 10	40	Feet	7	10	8	9	13	11	6	11	8	4	8	6	7	9	8
40 to	58	Feet	1:	18	15	14	19	16	11	19	15	8	16	12	11	17	14
50 to	€9_	Feet	13	21	17	14	19	16	13	22	_ 1 ~ 1	12	22	17	14	21	1~
60 to	70	Feet	12	16	14	12	14	13	12	15	13	12	17	15	13	15	15
70 to	80	Feet	10	18	10	9	9	9	10	9	9	19	12	11	11	11	11
89 to	98	Feet	_6	5	5	6	4	5	6	4	5	6	5	6	7	6	7
90 to	100	Feet	5	3	4	4	2	3	5	2	3	5	3	4	5	3	4
above	100	Feet	38	7	18	20	6	13	30	7	19	36	10	23	24	6	15
hean he	1 gh	t Feet	88	61	74	76	56	66	92	66	- 6	101	6€	83	84	68	~2

SOUM	115. 1	<u> </u>												
YE	RPL	7	J	AH-H	AR .	A	R-JI	JN	J	UL-SI	ξP	0	CT-D	EC
day	110	dan	day	211	den	day	n-1	dķn	da:	211	din	da,	การ	dtr
Γ		8			- 6			6			8			75
l		10			6	ŀ		9			13	i		10
į		362			354			362	i		367			3€4
I		17			16	Ì		17			17	Ì		17
15	14	15	16	15	15	15	15	15	1-1	13	14	15	15	15
	YE	YEAPLY day nit	YEAPLY day not dan 8 10 362	YEAPLY J. day nit dan day 8 10 362	YEAPLY JAN-Miday nit 8 10 362	YEAPLY JAN-MAR day not dan day not dan 8 6 10 6 362 354	YEAPLY JAN-MAR AI day nit dan day nit dan day 8 6 10 6 362 354 17 16	YEAPLY JAN-MAR APR-JI day nit dan day nit dan day nit 8 6 10 6 362 354 17 16	YEAPLY	YEAPLY	day nit dtn day nit dtn day nit dtn da; nit 8	YEAPLY	YEAPLY	YEAPLY

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMAP

Specified location: 25 88 N 165 88 H (*) INDICATES INSUFFICIENT DATA

Radiosonde source: 91165 21 58 N 159 21 H

Radiosonde station height: 118 Feet Surface obs source: MS89 25 00 N 165 00 H

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

PERCENT OCCUMPENCE	3r E	1111111111	CED.	JUNE	10, 2	,0-3		, ,	TUR	53.1		P. 111-34	<u> </u>		
FREQUENCY	Y	ERRL'	Y	31	AN-MA	RR.	A!	PR-JI	UH	JI	JL-SI	EΡ		CT-DI	EC
	day	nit	dan	day	รเก	d&n	day	nıt	din	day	nit	dŧn	day	กเเ	d\$n
100 KHz	7	1	4	5	1	3	7	1	4	इ	- 8	4	8	1	- -
1 GHz	47	12	38	39	10	24	49	13	31	56	14	35	45	10	23
3 GHz	60	21	40	51	_ 17	34	60	21	40	68	24	46	60	21	40
6 GHz	83	65	74	76	56	66	83	63	73	85	73	81	84	68	7.5
10 GHz	94	98	92	91	85	88	94	98	92	97	94	96	95	92	93
20 GHz	97	96	96	95	93	94	97	96	96	99	97	98	97	96	97

SUPERCY BASED DUCT SUMMARY:

FARAMETER	YER	RLY	J	AN-M	ar .	Al	R-JI	JK	J	JL-SI	Р	01	T-DI	Č
	day n	ıt dan	day	nıt	dan	day	nit	d&n	day	nit	din	dan	nit	d*n
Percent occurrence	41	4 22	37	4	21	38	4	21	43	- 2	23	45	5	25
RVC thickness Kft		.37	ŀ		.34			. 40			.38	ļ		. 35
AVG trap freq GHz		.51	į .		.60	(.50	l		.41			. 54
AVG lyr grd -N/Kft		67			67	l		67	_		71	_		€4

ELEVATED DUCT SUKMARY:

PARAMETER	Y	ERRL'	Y	Ji	าห-พ	3 R	នា	R-JI	314	Ju	JL-SE	Р	ő	.T-D5	C
	day	nit	d&n	day	nit	dan	day	nit	din	day	nit	dtn	day.	nit	dtn
Percent occurrence	43	64	53	40	€0	50	42	66	54	48	69	59	40	60	- 3
AVG top ht Kft	i		6.6	i		6.4	l		6.6			6.7			6.7
AUG thickness Kft	L		.52			. 52	L		.53			.54			.51
AVG trap freq GHz			.26			.26			.26			.26			.28
AVG lyr grd -H/Kft	l		61			61	l		65	ı		61	Ī		58
AVG for base Kit	i		6.2			6.0	i		6.2	i		6.3	į.		6.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PERCENT	OCCURRENCE	Y	ARL.	Ϋ́	J	M-HA	AR	AF	R-J	UH.	7	UL-S	ĘP	0:	CT-DE	EC
		day	nit	din	day	nit	den	day	11 t	dtn	day	nit	din	day	nit	den
0 to	10 Feet	3	2	2	3	3	3	3	2	3	1	1	1	2	1	2
10 tc	20 Feet	2	3	3	4	4	4	2	3	2	1	2	2	2	3	2
20 10	30 Feet	4	6	5	_ 6	_ 8	?	4	6	_ 5	3	3	3	4	5	÷
30 to	40 Feet	7	10	8	9	12	11	7	10	8	4	7	6	7	9	3
48 10	50 Feet	11	17	14	13	17	15	11	18	14	9	15	12	11	:6	:3
50 10	60 Feet	13	20	16	14	18	16	13	20	16	12	21	17	14	20	17
68 to	70 Feet	12	15	14	11	14	13	11	14	13	12	17	14	13	17	15
7e 10	88 Feet	10	11	10	9	9	9	9	9	9	10	12	11	11	12	11
28 10	98 Feet	6	5	5	_5	4	5	5	4	5	7	7	7	7	?	7
90 to	100 Feet	4	3	4	3	2	3	4	2	3	4	3	4	6	4	5
above	100 Feet	28	16	19	21	7	14	31	11	21	37	13	25	23	7	15
Mean he	ight Feet	88	64	76	76	57	67	92	64	78	103	70	86	82	63	72

OCHERNIE DE LEGITOROGUE	.0.111111	• •												
PARAMETER	YERP	LY	36	H-H	AR .	AF	R-J	UN	J	JL-SI	EP	- 50	CT-DE	EC
	day no	t din	day	nit	d&n	day	nit	dln	day	nit	dtn	da	nit	ರಕೂ
% occur EL&SB dcts		. 8	I -		6			6			8	í		_ 19
% occur 2+ EL dcts		10	İ		6	ļ		9	i		13	;		19
AVG station N		362			354	1		362	l		367	i		364
AVG station -N/Kft		17	l		16			17	1		17	l		1?
AVG sfc wind Fts	14 1	4 14	15	15	15	14	14	14	13	13	13	15	15	. 15

H

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

(*) INDICATES INSUFFICIENT DATA 28 13 N 177 22 H Specified location: Radiosonde source : 91066 28 13 H 177 22 H

0 Feet Radiosonde station height: 25 08 H 175 00 H Surface obs source: MS98

PER	CENT (OCCURRENCE	CF E	инян	CED.	SUPF	8(<u>E-</u>	<u> 10-5</u> 1	<u>URFAL</u>	CE RI	IDAP	ESM	COM	RHN	<u>LES:</u>		
	FRE(DUENCY	Y	EARL'	Y	J	RN-MI	R	A	PR-J	JH	J	UL-S	EP	0	CT-D	EC
1			day	nit	dan	day	n1t	d&n	day	nit	dan	day	nit	dên	day	nit	den
	169	HHZ	3	2	2	2	2	2	2	2	2	4	2	3	2	1	2
1	1	GHz	37	15	26	38	12	21	36	16	26	46	19	32	35	14	24
1	3	GH2	1 47	24	35	42	20	31	45	22	33	55	28	42	47	25	36
	6	GHz	75	64	70	70	56	-53	71	59	65	82	73	7?	78	-68	73
1	16	GHz	91	89	98	88	85	86	88	86	87	95	93	94	92	90	91
	28	GHz	j 95	94	94	93	92	93	93	94	93	97	96	97	96	95	95

SURFACE PASED DUCT	SUMMARY:													
PARAMETER	YERRL	Ÿ	J	AN-M	R R	A	PR-JI	UH	3	UL-SI	EP	Ö	CT-DI	EC .
_	day nit	n\$b	day	nit	dŧn	day	nit	d&n	day	nit	dan	day	nit	dên
Percent occurrence	16 9	12	16	11	14	13	8	11	21	10	16	12	8	10
AVG thickness Kft	Į.	. 39	l		.28			. 48	ŀ		. 46	i		. 43
AVG trap freq GHz	i	.56	i i		.78	l		. 43	ł		.42	l		. 63
AVG lyn grd -N/Kft		108	L		167			95			117			111

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL	Y	J	AN-MI	AR .	AI	5-31	1M	J	JL-SI	EΡ	0	CT-DI	EC
	day	n11	d&n	day	nit	d&n	day	nit	den	day	nit	den	day	nit	den
Percent occurrence	37	58	43	39	56	45	41	59	59	32	43	38	34	47	41
AVG top ht Kft	ŀ		5.8			5.5			5.5	l		6.4	ł		5.8
AVG thickness Kft	l.	_	.47			.46			.51			.42	i		. 51
AYG trap freq GHz			. 31			.34		_	.25			.36			.27
AVG lyr grd -N/Kft	Ì		62	1		64	ì		62	1		61			62
AVG lyr base Kft			5.5			5.2			5.1			6.1	<u> </u>		5.5

PERCENT OCCUR	RENCE	YERRL'	7	J	AH-M	iR	AF	R-Ji	JH	31	JL-SI	EΡ	00	T-DE	C
	da	2 11 2	din	day	n11	den	day	nit	den	day	nit	d&n	day	nii	dt >
8 to 18 Fe	eet	3 3	3	5	4	5	4	3	4	2	1	2	3	2	2
10 to 20 Fe	eet :	3 4	3	3	5	4	4	4	4	2	3	2	2	3	3
20 to 30 Fe	262	5 6	_5	6	. 8	_ 7	5	8	7	3	3	3	4	5	5
30 to 40 Fe	eet	7 11	9	9	13	11	9	12	10	6	કે	7	6	16	8
40 to 50 Fe	eet 1	1 16	13	12	18	15	11	18	15	10	15	12	18	14	12
50 to 60 Fe	eet 1	3 19	16	13	18	15	12	19	16	13	22	17	12	18	15
60 to 78 Fe	cet 1	1 15	13	10	13	12	18	12	11	11	17	:4	11	16	:4
70 to 80 Fe	eet !	8 10	9	٩	8	8	7	8	7	8	10	9	10	12	11
80 to 98 Fe	eet j	<u> 5</u>	_ 5	6	4	5	4	4	4	<u> </u>	5	_ 5	7	6	7
90 to 100 Fe	eet	4 3	3	4	2	3	3	2	3	3	3	3	5	4	4
above 108 Fe	eet 3	9 19	20	24	7	15	30	11	20	36	13	25	30	9	19
Hean height f	Feet 9	62	76	88	56	68	87	61	74	161	69	85	98	64	7

PARAMETER	Y	RRL	Y	Ji	an-H	RR	R.F	R-J	JN		JL-SI	EP	Ö	CT-DE	C
	day	nıt	dŁn	day	nit	dên	day	nit	d%n	day	nit	din	da	nit	de-
% occur EL&SB dcts			4			6			4			4			3
% occur 2+ EL dcts			8			6			12	l		16	l		6
AVG station N			357			343			356	ŀ		369	l		359
AVG station -N/Kft			17			15			17	ŧ		18			17
AVG sfc wind Kis	14	14	14	16	15	15	13	13	13	12	13	12	15	14	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 25 00 N 175 00 E (7) INDICATES INSUFFICIENT DATA Radiosande source: 91066 28 13 N 177 22 W

Radiosonde station height: 8 Feet

Surface obs source: MS91 25 00 N 175 00 E

PEPCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE PADAR ESH .OH PANGES:

FREQUENCY	YI	EARL'	Y	J	AN-M	3R	R	R-JI	אט	7,1	JL-SI	EP	0	CT-DE	EC
	day	nit	dan	day	nit	d&n	day	nit	d&n	day	nı.	din	day	nit	d&~
100 MHz	3	2	2	2	2	2	2	- 2	2	4	2	3	2	1	2
1 GHz	39	12	26	30	19	20	38	12	25	48	14	31	40	14	27
3 GHz	50	21	35	42	18	30	46	18	32	57	_22	40	54	_27	41
6 GHz	76	61	69	71	55	63	79	59	68	82	68	75	81	69	75
10 GHz	90	87	89	87	84	86	87	82	84	94	91	93	94	91	92:
20 GH=	94	94	94	92	92	92	92	91	92	97	96	96	96	96	96

CHOCOCE RASED BUICT SHMKARY:

PARAMETER	YERRLY	JAN-MAR	APR-JUN	JUL-SEP	GCT-DEC
	day nit otn				
Percent occurrence	16 9 12	16 11 14	13 8 11	21 10 16	12 8 16
AVG thickness Kft	.39	.28	.48	.46	.43
AVG trap freq GHz	.56	.78	.43	.42	.63
AVG lyr and -N/Kft	108	107	95	117	121

FLEVATED BUCT SUMMARY:

PARAMETER	Y	EARL	Y	71	an-H	ar.	R	PR-J	ИL	JI	JL-SI	EP	0	CT-DI	EC
	day	nit	dan	day	nit	dan	day	nit	den	day	nit	dŧn	day	nit	3 * -
Percent occurrence	37	50	43	39	50	45	41	59	50	32	43	38	34	47	41
AVG top ht Kft			5.8			5.5	i		5.5	1		6.4			5.8
AVG thickness Kft			.47	i	_	.46			. 51	L		.42			.51
AVG trap freq GHz			.31			.34			.25			.3€			. 27
AVG lyr grd -N/Kft			62	ł		64	t		62			61	l		62
AVG for base Kft	i		5.5	ı		5.2	j		5.1	l		6.1	l		5.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YI	ERRL'	Υ	J	หห-พ	AR	A	PR-J	ÜN	31	UL-S!	EP	G	CT-DI	EC
	day	กาเ	din	day	nit	din	day	nit	dån	day	nit	din	day	rit	d*n
0 to 10 Feet	4	3	4	6	-	5	ε	4	5	2	2	2	3	5	2
10 to 28 Feet	2	4	3	3	5	4	3	6	4	2	3	2	1	3	2
20 to 38 Feet	4	7	6	6	9	7	6	10	8	3	_ 5	4	3	- 5	4
30 to 40 Feet	6	11	9	8	14	11	8	16	12	5	8	5	5	8	 7 -
40 to 50 Feet	10	17	:4	10	18	14	11	19	15	18	17	14	9	15	12
50 to 60 Feet	11	19	15	12	19	15	12	17	14	12	22	17	9	18	13
68 to 70 Feet	10	14	12	12	14	13	9	11	10	11	17	14	11	15	13
78 to 80 Feet	9	9	9	10	8	9	7	6	6	3	11	9	10	12	11
80 to 90 Feet	6	5	- 6	6	4	5	4	3	_ 4	5	5	5	<u> 8</u>	8	?
98 to 100 Feet	4	3	3	4	2	3	3	2	2	3		3	6	4	5
above 100 Feet	32	7	19	23	4	13	32	6	19	39	7	23	35	10	32
Hean height Feet	92	58	75	79	52	65	91	53	72	103	_62	82	3-	65	-1

PARAMETER	YEARLY	JAH-KAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit din	day nit den	day rit dan	day nit dan	day nit d'r
% occur EL&SB dcts	4	6	4	4	3
% occur 2+ EL dcts	8	6	12	18	6
AVG station H	357	343	356	369	359
RVG station -H/Kft	17	15	17	18	17
AVG afc wind Kts	14 14 14	16 15 16	13 12 13	12 12 12	15 15 15

K

Specified location: 25 00 N 165 00 E Radiosonde source: 91245 19 16 N 166 39 E

Radiosonde station height: 16 Feet Surface obs source: MS92 25 00 N 165 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/FSH COM RANGES:

PERCENT OCCORRENCE	OF ENHANCE.	ואטפו	FHCE-IU	<u>-51</u>	<u>JKFHL</u>	E KI	WHK.	<u> </u>	LUM	KHI	<u> </u>		
FREQUENCY	YEARLY		JAN-MAR		AF	R-JI	JH.	31	JL-SI	EP	01	CT-Di	EC
	day nit di	n da	<u>y nit d</u>	≵ n	day	nit	d&n	day	nit	d&n	day	nit	dt n
100 MHz	8 2	5	8 2	5	7	1	4	7	1	4	- 9	3	6
1 GHz	52 12	2 4	4 11	27	53	12	32	59	10	34	52	16	34
3 GHz	64 19	2 5	8 19	38	63	17	48	69	15	42	66	27	46
6 GH⊋	34 58	1 8	1 58	70	80	46	63	88	59	73	88	68	78
10 GH±	93 85	9 3	2 86	89	90	77	83	96	87	91	96	91	93
20 GHz	96 93	4 9	5 93	94	93	88	91	97	94	95	97	96	97

SURFACE BASED DUCT SUMMARY:

PARAMETER		EARL	Y	J	RN-MI	R .	A.	R-JI	JN	I Ji	JL-SI	P -	0	CT-DI	Ē.
	-	nit	- 1	t -											
Percent occurrence	41	9	25	44	11	28	37	7	22	37	4	21	44	13	29
RYG thickness Kft			.42			.42	Ī		.43	ļ .		.39	i		.43
AYG trap freq GHz			.41	l		.44			.38	1		.43	i		.48
RVG lyr grd -N/Kft			72			69			77	<u> </u>		70			74

ELEVATED DUCT SUMMARY:

PARAHETER	Ϋ́	ERRL	Y	J	AN-M	AR	RI	R-J	ИÚ	J	JL-SI	EP	01	CT-DE	C
	day	DIE	dŁn	day	nit	dan	day	nit	dan	day	nıt	d&n	day	nit	din
Percent occurrence	36	50	43	53	72	63	34	59	42	13	21	17	45	55	50
AVG top ht Kft			6.6	ŀ		6.5	ļ .		6.5	i		6.4	i		6.7
AVG thickness Kft			.51	ĺ		.56	ĺ		.50			.42	ļ .		.57
AYG trap freq GHz			.39			.23			.29			.48			.22
976 lyr grd -N/Kft			62	l		64	ı		63	l		57	i		64
AVG lyr base Kft			6.2	L		6.2			6.2	Ĺ		6.1	L		6.3

EVAPORATION DUCT HISTOGRAM IN PEPCENT OCCURRENCE:

PEPCENT OF	CLRPENCE	1	Erkt.	Y	1	H-N	AR .	R:	P-J;	JN _	7	UL-SI	Р	00	T-DI	EC
		day	nit	d&n	day	nit	d&n	day	r-12	den	33	nit	480	Ja -	n'1	d\$r
0 to 10	Feet	5	3	4	6	3	5	8	- 6	7	3	2	2	3	- 2	2
10 to 26	Feet	3	5	4	3	5	4	1 4	7	5	2	5	3	2	3	3
20 to 30	Feet	4	_ 8	.6	5	8	7	5	12	8	3	7	5	3	6	5
38 to 46	Feet	6	12	9	7	12	:0	7	15	11	4	11	- 8	5	10	7
48 :0 56	Feet	9	18	13	11	19	15	9	18	14	7	12	:3	8	16	12
50 to 60) Feet	11	19	15	12	20	16	16	16	13	و	21	15	11	19	15
60 to 70	Feet	11	14	12	14	15	14	3	10	- 9	10	15	13	12	16	14
70 10 80	Feet	9	9	è	10	9	9	7	5	€	8	9	8	11	12	11
SC to 96	Feet	7	4	_5	8	4	6	5	2	4	- 6	4	5	9	6	7
98 to 10	0 Fest	4	2	3	5	2	3	4	2	3	4	1	2	6	4	5
above 10	8 Feet	35	6	19	19	4	11	25	1	21	44	7	26	30	7	19
Hean hero	ht Feet	92	56	74	74	54	64	93	52	73	111	58	84	91	61	76

PARAHETER	YEARI	.Y	J:	AH-HI	6R	AF	R-JI	JN	Ji	JL-S	E.P.	00	T-DI	EC
	day nit	den	day	nit	d&n	day	nit	dtn	day	nit	d&n	day	nit	dŧn
% occur ELESB dcts		9			13			7			2			13
% occur 2+ EL dcts		9	l		11			8			4	i		12
AVG station N		378			366			377			388	Ì		380
AVG station -H/Kft		20	l		18			28			20			20
AVG sfc wind kts	14 13	3 14	17	16	16	12	12	12	12	11	12	_15	14	15

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 24 18 N 154 00 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 91131 24 18 N 154 00 E

Radiosonde station height: 56 Feet Surface obs source: MS93 25 00 N 155 00 E

DESCENT OCCUPATIONS OF ENHANCED CHARGE-TO-CHARGE DADAD/ECM/COM DANCES

PERCENT OF CORRESPOR	<u> </u>	141111111	LED .	JUFF	TUE_	10-3	JEFNI	-E 61	י ארועי	E 211.	CON	KINI	363.		_
FREQUENCY	Ϋ́	EARL	Υ	J	ห−หก	AR	RI	PR-JI	JH	71	JL-SI	EP	0	CT-DI	EC
	day	nit	dŁn	day	nit	dŁn	day	nit	d&n	day	nit	den	day	nit	d∓n
100 MHz	7	1	4	6	1	3	10	0	5	8	1	4	6	8	3
1 GHz	51	8	38	37	7	22	59	9	34	62	8	35	45	8	27
3 GHz _	63	14	_ 39	51	15	33	69	12	41	72	14	43	61	17	39
6 GHz	84	54	69	81	59	79	82	41	62	89	55	72	85	63	74
18 GHz	93	83	88	93	86	90	90	73	82	96	23	98	95	87	91
20 GHz	96	91	93	96	93	95	93	85	89	98	92	95	97	93	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	J	ลห-ห	AR	RI	R-J	UK	J	UL-SI	ĘΡ	0	CT-DI	EC -
	day	nit	d&n	day	nit	d&n	day	nit	dån	day	nit	dan	day	nit	din
Percent occurrence	43	3	23	36	6	21	53	2	28	45	3	24	39	2	21
AVG thickness Kft			.40			.39	l		.40	:		.48	l		.41
AYG trap freq GHz	i		.53	ĺ		.62	ĺ		.42			.49	1		.58
AVG lyr and -N/Kit			_ 81	L		92	L		69			73	l		98

ELEVATED DUCT SUMMARY:

PARAMETER	3	EARL'	,	J	AN-MA	AR.	AI	PR-JI	JH	J	JL-SI	ĘΡ	00	T-DI	EC
	day	nıt	dan	day	rit	den	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	26	43	34	35	52	44	34	48	41	8	23	16	25	48	37
AVG top ht Kft	Ì		5.7			6.3			5.3			5.6	1		5. 7
AVS thickness Kft	Ĺ		.51	L		. 43	L		.51	L		.56	L .		.53
AVG trap freq GHz			.38			.34			.26			.30			.30
AVG lyr grd -N/Kft			59			60			62			57	ľ		58
AVG lyr base Kft			5.3			6.0	i		4.9	i		5.1	ļ.		5.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PEPCENT OCCUR	RENCE	YE	ARLI	7	J1	in-Hf	R	RF	R-JU	JH	Jŧ	JL-SE	P	00	T-DE	C
		day	nit	aln	day	nit	d&n	day	nit	dtr	day	กาเ	den	day	nit	dtn
0 to 18 F	eet	5	4	4	4	3	4	11	8	9	3	2	2	3	2	2
10 to 20 F	eet	3	6	4	2	4	3	4	8	6	2	6	4	2	5	3
20 to 30 F	eet	4	_ 8_	6	_4	. 8	6	_5	12	9	3	7	5	4	6	5
30 to 40 F	655	6	12	9	7	11	9	6	14	10	5	12	ક	5	10	— ููู-
40 to 50 F	eet	9	18	:3	11	18	14	9	19	14	7	19	13	9	15	12
50 to 60 F	eet	11	19	15	14	20	17	_ 9	15	12	10	20	15	11	19	15
60 to 70 F	eet	11	14	12	14	16	15	8	9	8	9.	14	11	11	17	14
70 to 80 F	eet	9	9	9	12	10	11	6	5	6	7	ક	ક	11	12	11
88 to 90 F	eet	_6	4_	5	_8	5	6	4	2	3	5	-4	4	9	6	7
90 to 100 F	eet	4	2	3	5	2	3	3	1	2	3	1	2	6	3	− ∓
above 180 F	eet	32	6	19	19	3	11	35	8	21	46	6	2€	29	7	18
Hean height	Feet	92	55	74	76	54	65	91	51	71	112	57	85	89	59	74

PARAMETER	YEARL'	7	JA	H-H	1R	AF	R-J	มห	Jl	IL-S	ĒΡ	č	T-DI	EC
	day nit	d&n	day	กาเ	d£n	day	nit	den	dav	nit	den	day	nit	din
% occur EL&SB dcts		5			7			8			1			3
% occur 2+ EL dcts		5	1		5			5			2	i		8
AVG station N		371	i		350			372			387			373
AVG station -N/Kft		28	1		16	1		21			22			28
AVG sfc wind Kts	14 13	14	17	16	16	12	11	12	12	11	11	15	14	:5

(+) INDICATES INSUFFICIENT DATA Specified location: 27 05 N 142 18 E Radiosonde source : 91030 27 06 N 142 18 E Radiosonde station height: 33 Feet

Surface obs source: MS94 25 00 N 145 00 E

OF F	инни	CED.	SUKE	HLE-	10-2	UKFA	LE M	HUNK.	<u> 25n</u>	LUN	RIN	<u> </u>		
TY	EARL	Ÿ	J	H-HA	AR	AI	PR-J	UN	J	UL-S	EP	0	CT-DI	EC
day	nit	dŁn	day	nit	_d&n	day	nit	den	day	กาเ	d&n	day	nit	d&n
1	2	2		+	*	6	4	2	3	3	3	1	9	1
38	15	26	+	*		36	19	27	46	18	32	33	7	28
49	21	35		*	-	41	_23	32	56	25	40	47	17	32
74	57	65	*	+	*	63	47	55	88	61	71	80	63	71
88	84	86		*	*	79	75	77	92	87	98	93	89	91
92	92	92		*	*	84	86	85	95	94	95	96	95	95
	7 day 1 38 49 74 88	YEARL day nit 1 2 38 15 49 21 74 57 88 84	YEARLY day nit dan 1 2 2 38 15 26 48 21 35 74 57 65 88 84 86	YEARLY J day nit dtn day 1 2 2 * 38 15 26 * 48 21 35 * 74 57 65 * 88 84 86 *	YEARLY JAN-M day nit din day nit 1 2 2 * * 38 15 26 * * 48 21 35 * * 74 57 65 * * 88 84 86 * *	YEARLY JAN-MAR day nit dan day nit dan 1 2 2 * * * 38 15 26 * * * 48 21 35 * * * 74 57 65 * * * 88 84 86 * *	YERRLY	YEARLY JAN-MAR APR-JI day nit dtn day nit dtn day nit 1 2 2 * * 0 4 38 15 26 + * 36 19 4 21 35 * * 4 1 23 74 57 65 * * 63 47 88 84 86 * * 79 75	YERRLY JAN-MAR APR-JUN day nit dan day nit dan day nit dan 1 2 2 * * 8 4 2 38 15 26 * * 36 19 27 48 21 35 * * 41 23 32 74 57 65 * * * 63 47 55 88 84 86 * * 79 75 77	YEARLY JAN-MAR APR-JUN JAN-MAR JAN-MAR JAN-MAR JAN-MAR JAN-MAR JAN-MAR <th< td=""><td>YEARLY JAN-MAR APR-JUN day nit day ni</td><td>YERRLY JAN-MAR APR-JUH JUL-SEP day nit dan day nit dan day nit dan day nit dan 1 2 2 * * 0 4 2 3 3 3 38 15 26 * * 36 19 27 46 18 32 48 21 35 * * 41 23 32 56 25 40 74 57 65 * * 63 47 55 80 61 71 88 84 86 * * 79 75 77 92 87 98</td><td>YERRLY JAN-MAR APR-JUN JUL-SEP Oday day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit day nit dan day nit day <</td><td>YERRLY JAN-MAR APR-JUN JUL-SEP OCT-DI day nit dtn day nit dtn day nit</td></th<>	YEARLY JAN-MAR APR-JUN day nit day ni	YERRLY JAN-MAR APR-JUH JUL-SEP day nit dan day nit dan day nit dan day nit dan 1 2 2 * * 0 4 2 3 3 3 38 15 26 * * 36 19 27 46 18 32 48 21 35 * * 41 23 32 56 25 40 74 57 65 * * 63 47 55 80 61 71 88 84 86 * * 79 75 77 92 87 98	YERRLY JAN-MAR APR-JUN JUL-SEP Oday day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit day nit dan day nit day <	YERRLY JAN-MAR APR-JUN JUL-SEP OCT-DI day nit dtn day nit dtn day nit

SUPFACE BASED DUCT S	UHHARY:				
PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
1 1	day nit dan	day nit den	day nit din	day nit dan	day nit din
Percent occurrence	5 8 7	0 0 0	0 13 7	15 16 16	6 2 4
AVG thickness Kit	.39		.40	.37	.37
AVG trap freq GHz	.46		.19	.42	.77
AVG lyr grd -H/Kft	204	-	218	154	248

JAN-MAR

ELEVATED DUCT SUMMARY: PARAMETER

	day	nit	dån	day	nit	d&r	day	nit	d&n	day	nit	din	day	nit	dan
Percent occurrence	20	20	20	9	10	18	10	28	15	35	12	24	27	38	33
AVG top ht Kft	1		5.8			5.2	i		7.4	i i		4.9	l		5.8
AVG thickness Kft	l		. 45			.62	l		. 47			.24	L	_	. 46
AVG trap freq GHz			.55			.26			.23			1.3	l		.38
AVG lyr grd -N/Kft	ŀ		67			73	1		74			59			68
AVG lyr base Kft	i		5.5			4.8			7.1			4.7			5.4
EVAPORATION DUCT HIS	STOG	PAH :	IN PE	RCE	IT 00	CCUR	PENC	E ;	_						
PERCENT OCCUPRENCE	Y	ARL	7	Ji	1H-H!	ar	RI	PR-J	Hi	Ji	JL-SI	ΕP	01	CT-DI	EC

APR-JUN

JAN-MAR APR-JUN JUL-SEP OCT-DEC

JUL-SEP

JAN-MAR | APR-JUN | JUL-SEP | OCT-DEC

YEARLY

	300		,	_,,,,,	•			•••	• • • • • • • • • • • • • • • • • • • •		• • •	•		-•			
			day	nit	děn	day	nit	d&n	day	nit	đår	day	nit	din	day	nit	din
0 to	16	Feet	5	4	5	3	2	3	ì1	9	10	5	3	4	3	2	- 2
10 to	20	Feet	3	5	4	2	3	3	4	8	6	2	5	3	2	3	2
20 10	30	Feet	4	8	6	4	6	5	6	13	_9	4	8	6.	3	6	5
30 to	40	Feet	6	12	9	6	18	8	7	15	11	5	12	8	5	19	8
48 to	58	Feet	9	17	13	11	17	14	9	17	13	8	19	14	9	17	13
50 10	68	Feet	1:	18	15	14	20	17	9	_15	12	10	26	15	12	_ 19	15
66 10	70	Feet	11	14	13	15	17	16	8	9	8	18	14	12	12	17	14
78 to	80	Feet	9	8	9	12	11	12	3	4	5	8	7	8	11	11	11
80 to	90	Feet	6	4	5	7	5	6	3	2	3	6	4	5	8	- 6	7
90 to	108	Feet	1	2	3	5	3	4	2	1	2	3	1	2	6	3	4
above	100	Feet	32	6	19	22	4	13	36	ક	22	40	8	24	38	6	18
Hean he	eighi	t Feat	92	56	74	81	57	69	91	49	78	192	57	89	92	60	~ 6

PARAMETER YEARLY

1	day	nit	din	day	nıt	din	day	nit	den	day	nit	din	day	nıt	den
a occur EL&SB dcts			0			9			0			0			1
% occur 2+ EL dcts			4	j		2	l		1			7	l		6
AVG station N	i		319	l		337	i		189			398	!		361
RVG station -H/Kft	1		15	ļ		15	!		9.4			21	ļ		16
AVG sfc wind Pts	14	13	13	15	15	15	12	11	11	13	12	12	15	14	14

MISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

Specified location: 24 48 N 141 18 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 91115 24 48 N 141 18 E Radiosonde station height: 348 Feet

25 00 N 145 00 E Surface obs source: MS94

PEPCENT OCCUPPENCE OF ENHANCED SUPFACE-TO-SUPFACE RADAP-ESM COM PANGES:

FREQUENCY	Y	EARL	Υ	31	H-H	38	A1	PR-JI	JN	Ji	JL-S	P	O:	CT-D	EL -
	day	nit	dan	day	nit	dtr	day	nit	<u>dŧr</u> i	day	nit	dan	day	nit	din
100 MHz	1	1	1	1	1	1	2	2	2	1	0	1	2	1	1
1 GHz	36	19	23	25	8	16	41	14	27	41	9	25	36	9	23
3 GHz	47	17	32	37	17	27	48	19	_ 34	51	15	33	51	28	. 5
6 GHz	76	57	66	76	63	69	68	45	56	78	55	67	81	64	ī s
10 GHz	90	84	87	92	88	90	82	74	78	91	85	89	94	90	92
28 GH=	i 93	92	93	95	94	95	87	86	86	95	93	94	96	95	96

SURFACE RASED DUCT SUMMARY:

TOPT HEE DISCED BOCK	JOIN 111														
PARAMETER	YER	RLY		Jí	H-H!	38	£1	ヤーブ	784	J	<u>,, -56</u>	۶	36	T-DE	ε
İ	day n	iit (dtn	day	nit	dŁn	day	nit	din	day	rit	din	day	7,12	dt n
Percent occurrence	12	8	10	€	- 6	6	17	12	15	7	- 4	5	18	8	_: ?_
AVG thickness Kft	i		.42	l		.27			.59			.53	1		.28
AVG trap freq GHz			1.1			.58	ĺ		.91			1.7	i i		1.2
AVG lyr grd -N/Kft			151			192			118	L		138	L		157

FIEVATED DUCT SHMMARY:

PARAMETER	Y	EARL'	Y	J	RH-M	ar .	A	PR-J	UN	J	JL-SI	EP	Ü	T-Di	EC
	day	กาใ	dan	day	nıt	der	day	nit	den	day	nit	dir	day	nit	C: ^
Percent occurrence	31	37	34	31	45	38	29	41	35	33	26	30	29	34	-25
AVG top ht Kft			5.7	•		5.4	•		5.0	l		6.3			6.3
AVG Thickness Kft	Ī		.47	ł		- 46	1		. 54	1		.43			. 47
AVG trap freq GHz			.40			.36			.29			.36			.61
AVG lun and -N/Kft	Ì		63	1		63			65			εı			63
AVG lyr base ift	ļ .		5.4	İ		5.1	l		4.7	ĺ		6.0	l		5.0

PEPCENT OCCURRENCE	Y	EARL'	Y	3:	AN-K!	3R	fil	₹-Jı	JH _	J	JL-SE	ΕP	Č(T-DE	C
	day	nit	dtn	day	nit	din	day	nit	din	day	***	den	33.	210	då n
0 to 10 Feet	5	4	- 5	3	2	3	11	9	10	5	3	4	3	2	2
10 to 20 Feet	3	5	4	2	3	3	4	8	- 5	2	5	3	2	3	2
20 to 30 Feet	4	_ 8	_ 6	4	5	_ 5	6	13	. 9	.4	8	6	3	6	5
30 to 40 Feet	6	12	9	6	10	8	7	15	11	5	12	8	5	10	- 8
40 to 50 Feet	9	17	13	11	17	14	9	17	13	8	:3	34	3	17	13
50 to 60 Feet	11	18	17	14	29	17	9	15	12	10	20	15	12	19	15
60 to 78 Feet	III	14	13	15	17	16	8	9	8	16	14	12	12	17	14
70 to 80 Feet	9	8	9	12	11	12	5	4	5	8	7	8	11	11	11
80 to 90 Feet	6	4	5	_ 7	_5	6	3	2	. 3	ŏ	4	5	8	6	7
98 to 100 Feet	4	2	3	5	3	4	2	1	2	3		2	6	3	- 4
above 100 Feet	32	6	19	22	4	13	36	8	22	40	8	24	30	6	18
Hean height Feet	92	56	74	81	57	69	91	49	70	102	57	80	92	69	7€

PARAMETER	YI	BRL	Υ	J:	H-MA	AR	R.F	1-8-	UK	1,	-L-S	F	0	בד-סו	EC
	day	nit	d&n	day	n.1 *	din	day	nit	den	day	r 11	den	da	กาเ	din
% occur EL&SB dcts			3			3			4			1	Γ		- 5
% occur 2+ EL dcts			8	į		- 6			11			9	1		8
AVG station N			353			312	l		362	i		382	1		357
AVG station -N/Kft			17			10	l		20	!		21	1		:3
AVG sfc uind Kts	14	13	13	15	15	15	12	11	_ 11	13	12	12	15	14	14

Specified location:

Surface obs source: MS95

28 48 N 134 42 E Radiosonde source : 4YT

Radiosonde station height: 39 Feet

25 00 N 135 00 E SERVENT OCCUPATIONS OF ENHANCED SUBFACE-IN-SUBFACE PARAPIESE COM PANCES:

PEKLEN: ULLUKPENLE (ום יינ	иппи	LED	JUKE	חנב-	, 0,-50	DELUI	- F	יחעה	E 211	- 6000	Krint	<u> 35 3. </u>		
FREQUENCY	Y	EARL'	Ÿ	J	AN-M	AR	A1	PR-J	เห	_ J1	UL-SI	EP	00	CT-DE	EC
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	dŁn	day	nit	<u>dan</u>
108 MHz	0	- 0	8	*	*	*	e	1	8	0	9	Θ	1	9	8
1 GHz	28	8	18	*	¥	¥	27	9	18	33	8	21	25	7	16
3 GHz	38	16	_27		- +	*	33	14	23	42	_14	28	39	19	29
6 GHz	68	55	61	*	Ŧ.	*	54	39	46	72	56	64	78	69	73
10 GHz	85	82	83	*	*	*	72	69	71	89	86	87	93	92	92
20 GHz	90	91	90	*	*	*	79	81	80	93	94	93	96	97	96

CHREACE BASED DUCT SUMMARY.

PARAMETER		EARL'			AH-M			PR-J(JL-SE			:T-Di	
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	กาะ	d&n
Percent occurrence	3	4	3	*	*	+	i	6	4	3	4	4	4	2	3
AVG thickness Kft	l		. 25	1		*	i		.29			. 20			.2?
AVG trap freq GHz	ł		1.5			•	l		1.1			2.4			.84
AVG lyr grd -N/Kft	l		222	1		*	1		306			242	1		120

FIEVATED BUCT SUMMARY:

PARAMETER	Y	EARL'	Y	3(AN-M	AR .	B!	R-JI	JH	J	JL-Si	P	C	T-DI	EC
İ	day	nıt	din	dav	nit	dån	day	nit	d£n	day	nit	den	day	nit	den
Percent occurrence	16	13	12	+	*	*	9	12	11	7	9	8	15	18	17
AVG top ht Kft	l		5.1	ŀ		*	i		4.8	Į.		4.9	l		5.7
AVG thickness Kft			.46			#			.35			.58			.54
AVG trap freq GHz			, 48			*	Ĭ		.80			.36			.27
AVG lyr grd -N/Kft	l		57	l		*	ļ .		55	i		55			69
AVG lyr base Kft	İ		4.8			+	L		4.5	L		4.5	l		5.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCURRENCE	Y	EARL'	Y	J	AH-M	AR	R	PR-J	UN	3	UL-SI	EP	0	CT-DE	EC
		day	nit	d&n	day	nit	din	day	nit	d£n	day	ni:	dtn	day	nit	din
0 to	10 Feet	6	5	5	5	3	4	14	11	12	4	3	4	2	1	2
10 to 3	20 Feet	3	5	4	3	4	4	6	9	8	3	4	3	2	2	2
_ 28 to	30 Feet	5	8	_ 7	5	8	7	7	13	10	5	S	6	4	5	4
30 to	40 Feet	8	12	10	9	13	11	9	15	12	7	12	9	6	9	7
40 10	58 Feet	18	17	14	12	18	15	10	16	13	10	18	14	19	14	12
55 20	63 F441	13	35	15	15	15	17	9	14	11	12	28	16	13	18	_15_
60 to	70 Feet	12	15	13	:4	16	15	7	8	8	11	15	13	14	19	_,.
70 to :	80 Feet	9	8	9	10	9	10	5	4	-5	7	7	7	13	13	13
86 to	40 Feet	ε	4	5	<u> 6</u>	4	5	3	2	3	5	4	5	<u>8</u>	8	8
98 10	100 Feet	4	2	3	3	2	2	2	i	2	3	2	2	6	4	5
above	190 Feet	25	6	15	18	3	11	27	7	17	32	7	20	23	6	15
Kean he	ight Feet	81	55	68	74	53	63	76	48	62	92	56	74	84	62	73

Ī

PAPAMETER	YE	ARLY	1	3	H-HA	AR	A	-S-1	UN	J	JL-SI	EP	ŏ	CT-D!	EC
	day	nit	dtn	day	nit	den	day	nit	den	da	710	dsn	da	nit	dŧ n
% occur EL&SB dcts			1			•			G			0			3
% occur 2+ EL dcts	l		1	j		8			8			1			3
AVG station N			372	1		*	l		366	ŧ .		386	İ		364
AVG station -H/kft	j		17	ł		•			17	İ		19			15
AVG sfc wind Kis	14	14	14	15	14	14	12	12	12	13	13	13	16	15	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 25 49 N 131 13 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source: 47945 25 49 N 131 13 E Radiosonde station height: 49 Feet

Surface obs source: MS95 25 00 H 135 00 E

PERCENT OCCURRENCE OF ENHANCED SUBFACE-TO-SURFACE RADAR/ESK-COM RADGES:

-	rccii.	00001110	<u> </u>	* * * * * * * * * * * * * * * * * * * *		,,,,,					120115			4			
Г	FRE	QUENCY	Ÿ	ERRL	Ŷ	J	AN-H	AR	AI	PR-J	אנ	J	JL-SI	EP	01	CT-DI	EC
L			day	nit	dŁn	day	nit	d&n	day	nit	din	day	nit	dan	day	nit	din
Г	100	MHz	j 0	- 0	- 6	1	9	6	1	1		0	- 0	- 0	8	0	0
1	1	GHz	27	7	17	20	4	12	29	9	19	34	8	21	24	8	16
L	3	GHz	36	14	25	29	10	19	35	12	24	43	14	28	38	20	_ 29
Г	6	GHz	63	54	61	67	54	60	56	38	47	72	56	64	77	69	73
1	10	GHz	86	83	84	87	85	86	73	68	71	89	86	87	93	92	92
1	20	GHz	91	91	91	93	92	92	88	81	81	93	94	93	96	97	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	J	AH-M	AR.	A	R-J	JH	J	JL-SI	P	01	CT-D!	EC
	day	nıt	d&n	day	nit	d&n	day	nit	dån	day	nit	<u>d&</u> r	day	nıt	d&n
Percent occurrence	4	3	3	4	2	3	5	4	5	4	3	4	2	3	3
AVG thickness Kft	İ		.37	l		. 34			. 35	i		.30			.48
RVG trap freg GHz			1.0	l		.91			.92	l		1.4	i		.58
AVG lyr and -H/rft			110			123			114			99			104

FLEVATED BUCT SUMMARY:

PARPHETER	Y	EARL'	Y	J	BH-M	R R	A	PR-JI	NN	J:	JL-SI	P	9	CT-DI	EC
	day	nit	<u>d&n</u>	day	nit	_d&n	day	nit	din	day	nit	dân	day	nit	dan
Percent occurrence	14	15	14	13	14	14	19	19	19	10		10	14	16	15
AVG top ht Fft			5.1	l		5.5	l .		4.1	ĺ		4.8	İ		5.9
AVG thickness ift			.46			.35			. 59			.48	1		.43
AVG trap freq GHz			.44			.60			. 25			.43			.49
AVG lyr grd -N/Kft			56	i		55			56	l		56	1		5.7
RVG lyr base Kft			4.7	ĺ		5.2	i		3.7	1		4.4			5.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCC	URRENCE	Ϋ́	ERRL	~	3	AH-M	AR	91	PR-JI	UN	3	uL-5	ΕP	0.	T-Di	<u> </u>
		day	nit	d&n	day	nit	dŁn	day	nit	dan	day	การ	dan	day	nst	∂ \$n
0 to 10	Feet	6	5	5	5	3	4	14	11	12	4	3	_ 4	2	1	2
10 to 20	Feet	3	5	4	3	4	4	6	9	8	3	4	3	2	2	2
20 to 38	Feet	5	8	7	5	8_	7	7	13	18	5	8	6	4	5	_ +
38 to 48	Feet	8	12	10	9	13	11	9	15	12	7	12	9	6	9	- :-
40 to 50	Feet	10	17	14	12	18	15	10	16	13	19	18	14	10	14	12
50 10 50	Feet	12	18	1 <u>5</u>	15	19	17	_9	14	11	12	28	16	13	_ 18	_16
60 to 78	Feet	12	15	13	14	16	15	7	8	8	11	15	13	14	19	17
78 to 88	Feet	9	8	9	18	9	10	5	4	4	7	7	?	13	13	13
90 to 98	Feet	6_	4	5	6	4	5	3	2	3	6	4	5	8	8	9
90 to 100	Feet	4	2	3	3	2	2	2	1	2	3	2	<u>2</u>	6	4	5
above 188	Feet	25	6	15	18	3	11	27	7	17	33	7	28	23	5	15
Hean heigh	t Feet	81	55	68	74	53	63	76	48	€2	92	56	7;	84	62	73

PARAMETER	YE	ARL	7	J	H-II	AR	95	R-J	JH.	7(JL-S	۴	00	T-DE	C
L	day	nit	dan	34"	nit	din	day	nit	d&r.	day	nit	de-	day	nıt	den
% occur EL&SB dcts			8			9			1			- 6			Ø
% occur 2+ EL dcts			1			1	ĺ		2			8	i		0
AVG station N	İ		365	l		337			375			389	i		358
AVG station -N/Kft			16			13	l		18			18	i		14
AVG sfc wind Kts	14	14	14	15	14	14	12	12	12	13	13	13	16	15	15

(*) INDICATES INSUFFICIENT DATA

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24 19 N 124 10 E Specified location: Radiosonde source: 47918 24 19 N 124 10 E

Radiosonde station height: 23 Feet Surface obs source: MS96 25 00 N 125 00 E

DEDCENT ACCHIDENCE OF ENHANCER SUPPRICE-TO-SUPPRICE BARRAYESH FOM PANCES:

FE11 1	DECORRENCE !	Or E1	41,12,114		30 KF			JE						<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		
FRE	DUENCY	YI	EARL'	Y	J	im- Hē	3R	Ri	R-JI	JH	JI	JL-S	P	01	CT-DI	ĒC
		day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	dan	day	nit	d&n
100	MHZ	8	0	- 6	0	Ð	- 0	1	- 0	8	9	8	9	1	0	i
1	GH2	26	10	18	14	6	10	29	10	19	37	13	25	24	16	17
3	GHz	37	19	28	24	13	_ 18	36	15	_26	_48	_22	35	42	_27	34
6	GHz	71	60	65	66	58	62	62	45	53	76	62	69	79	73	76
10	GHZ	88	85	86	88	86	87	81	75	78	98	87	88	93	91	92
20	GHz	92	92	92	93	93	93	87	85	86	93	93	93	96	96	
	108 1 3 6 10	FREQUENCY 100 MHz 1 GHz 3 GHz 6 GHz 10 GHz 20 GHz	FREQUENCY YI day 100 MHz 0 1 GHz 26 3 GHz 37 6 GHz 71 10 GHz 89	FREQUENCY YEARL' day nit 100 MHz 0 0 1 GHz 26 10 3 GHz 37 19 6 GHz 71 60 10 GHz 38 85	FREQUENCY YEARLY day nit din 100 MHz 0 0 0 1 GHz 26 10 13 3 GHz 37 19 28 6 GHz 71 60 65 10 GHz 89 85 86	FREQUENCY YEARLY JO day nit dan day 100 MHz 8 0 0 0 0 1 GHz 26 10 13 14 3 GHz 37 19 28 24 6 GHz 71 60 65 66 10 GHz 39 85 86 88	FREQUENCY YEARLY JAN-MI day nit dan day nit 100 MHz 8 0 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	FREQUENCY YEARLY JAN-MAR day nit dtn day nit dtn day nit dtn day nit dtn 100 MHz 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	FREQUENCY YEARLY day nit dan day nit dan day JAN-MAR day nit dan day Ali day nit dan day 100 HHz 0 0 0 0 0 1 1 GHz 26 10 13 14 6 10 29 3 GHz 37 19 28 24 13 18 36 6 GHz 71 60 65 66 58 62 62 10 GHz 39 85 86 88 86 87 81	FREQUENCY YEARLY day nit dan day nit d	FREQUENCY YEARLY day nit dtn day nit dtn day nit dtn day nit dtn day nit dtn day nit dtn day nit dtn APR-JUN dtn day nit dtn day nit dtn 100 MHz 0 <td>FREQUENCY YEARLY day nit dan day nit dan day nit dan day nit dan day nit dan day nit d</td> <td>FREQUENCY YEARLY day nit dan day nit d</td> <td>FREQUENCY YEARLY day nit dtn day nit d</td> <td>FREQUENCY YEARLY day nit dtn day nit d</td> <td>FREQUENCY YEARLY JAN-MAR APR-JUN JUL-SEP OCT-DI day nit dan day nit day nit day nit day nit dan day nit day ni</td>	FREQUENCY YEARLY day nit dan day nit dan day nit dan day nit dan day nit dan day nit d	FREQUENCY YEARLY day nit dan day nit d	FREQUENCY YEARLY day nit dtn day nit d	FREQUENCY YEARLY day nit dtn day nit d	FREQUENCY YEARLY JAN-MAR APR-JUN JUL-SEP OCT-DI day nit dan day nit day nit day nit day nit dan day nit day ni

PARAMETER	Y	EARL	Y	J	AK-MI	R.	AI	R-J	H	J1	JL-SE	P	O	CT-DI	EC
	day	nit	d&n	day	กาะ	d&n	day	nit	d&n	day	nit	d&n	day	nit	dtn
Percent occurrence	4	3	3	2	2	2	5	2	4	4	4	4	3	2	3
AVG thickness Kft	l		. 35	l		.29			.30	İ		.28			.53
AVG trap freq GHz			1.5	ļ		1.4			1.2	i		3.1			.26
AVG lyr grd -N/Kft			171	ı		234	L		160	L		193			99

ELEVATED DUCT SUMMARY:

Read Processes - Readcook - Editoria - Editoria Paradoji III. Lizatur - da readcoi interactori de documento del

YI	EARL'	Y	Ji	M-NF	AR .	AF	R-J	JH	J	1 <u> SI</u>	Ð	00	CT-D!	EC
day	nit	d&n	day	nit	d&n	day	ni:	d&n	day	nit	dan	day	nit	d\$-1
11	12	12	9	12	11	15	15	15	9	9	9	10	13	12
		5.7			6.8	ĺ		4.2	l		5.0	l		6.6
		.43	1		. 35	<u> </u>		.50			.47	<u> </u>		. 40
		.53			. 64			.38	i		.48			.61
		56	l		55	l		55	ł		5€	ļ .		57
		5.3	}		6.6	ļ		3.8	Ł		4.6	l		6.3
		day nit 11 12	11 12 12 5.7 .43 .53 56	day nit dan day 11 12 12 9 5.7 .43	day nit dan day nit 11 12 12 9 12 5.7 .43 .53 .56	day nit dan day nit dan 11 12 12 9 12 11 5.7 6.8 .35 .35 .64 56 55 55 .55	day nit dan day nit dan day nit dan day 11 12 12 9 12 11 15 5.7 6.8 .35 .35 .53 .64 .55 56 55 .55 .55 .55 .55 .55	day nit dan day nit dan day nit 11 12 12 9 12 11 15 15 5.7 6.8 .35 .35 .35 .64 .53 .64 .55 56 55 .55 .55 .55 .55 .55	day nit dan day nit dan day nit dan nit nit	day nit dan day nit dan	day nit dan day nit dan day nit dan nit dan nit dan nit dan nit dan nit dan nit dan nit dan nit dan nit dan nit dan nit dan nit dan nit dan nit dan nit dan nit dan nit	day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan 11 12 12 9 12 11 15 15 15 9<	day nit day nit nit nit nit nit nit nit	day nit dan day nit day nit day nit day day nit day

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCI	JRRENCE	Y	ARL'	<u> </u>	J	RN-M	AR	AI	R-J	JH	J	JL-SI	P	ő	T-DE	EC
		_	day	nıt	d&n	day	nit	d&n	day	nit	d&n	day	nıt	d&n	day	nıt	dan
0 to	10	Feet	5	4	5	4	3	4	10	8	9	4	3	4	3	2	2
10 to	28	Feet	3	4	3	3	4	4	4	6	5	2	4	3	2	2	2
29 10	36_	Feet	5	7	6	5	7	6	6	11	9	4	7	5	_ 3	_ 5	4
30 to	48	Feet	7	19	9	9	11	10	9	15	12	6	10	8	6	7	- 6
40 to	50	Feet	10	15	13	14	18	16	11	16	13	9	15	12	9	12	19
50 10	60	Feet	12	17	14	16	_ 26	18	11	14	_ 13	10	18	14	11	15	13
60 to	70	Feet	12	14	13	16	16	16	9	10	18	10	15	12	14	17	15
78 to	80	Feet	10	10	10	11	10	11	7	6	6	8	9	9	13	15	14
80 to	99	Feet	7	6	6	6	5	_ 5	4	3	4	6	5	6	10	_10	10
98 to	100	Feet	4	3	4	3	2	3	3	2	2	4	3	3	7	6	7
above	100	Feet	25	9	17	14	5	9	27	9	18	36	12	24	23	8	15
Hean he	ı ghi	Feet	83	_ 68	71	69	56	62	80	54	_67	99	65	82	82	66	74

PARAMETEP	YE	BRL'	Y	36	н-иғ	ar 🗀	AF	R-Ji	JH	Ji	JL-S	EP	00	T-DI	EC
	Jay	nit	dŧn	day	nit	din	day	nit	den	day	nıt	dtn	day	nit	den
% occur EL&SB dcts			9			-0	i — —		1			0	_		บ
% occur 2+ EL dcts			1	l		1	l		1			1	i		Θ
AVG station N			368	1		345	i		379	i		388			359
AVG station -N/Kft	}		16	ı		13	l		17			18	l		14
AVG sfc wind Kts	15	15	15	16	16	16	13	12	13	14	13	13	18	18	18

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 26 24 N 127 48 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 47931 26 24 N 127 48 E

Radiosonde station height: 213 Feet

Surface obs source: MS95 25 00 N 125 00 E

PEPCENT OCCURRENCE OF ENHANCED SURFACE-TO-SUPFACE RADAR/ESM COM RANGES:

FREQUENCY	T V	EARL'	V	T	RH-MI	90		PR-J	IN	11	JL-Si	- 6		CT-DE	~ .
PREGOENCI														nit	
100 HHz	3	1	2	2	2	2	3	1	2	4	1	2	4	1	3
1 GHz	34	13	23	19	11	15	36	13	24	46	14	38	34	13	24
3 GHz	46	23	_34	38	20	25	44	19	32	57	22	40	52	30	41
6 GHz	75	62	68	69	62	65	67	48	58	81	62	71	83	75	7.5
10 GHz	90	85	88	89	87	88	84	76	80	92	87	89	94	92	93
20 GHz	94	92	93	94	94	94	89	86	88	95	93	94	97	96	97

SUFFACE BASED DUCT SUMMAPY:

PARAMETER	Y	EARL'	Y	J	คห-หค	R.	RI	PR-JI	ИN	3	UL-SI	P	90	CT-DI	EC
	day	nit	d&n	day	nit	den	day	nıt	din	day	712	dan	day	nit	don.
Percent occurrence	28	8	14	12	12	12	19	7	13	23	3	13	26	9	18
AYG thickness Kft	l		. 34	1		.30			.39	ŀ		. 36	l		.33
AYG trap freq GHz	1		.64			.81			. 55	ŀ		.48			.71
AVG lyr grd -N/Kft	L		183	L		120			96			76			120

ELEVATED DUCT SUMMARY:

PARAMETER	2.5	EARL'	Υ	J	RN-MI	AR	Al	R-JI	JH	J	JL-SI	P	01	CT-DI	EC -
	day	nit	d&n	day	nit	<u>d</u> &n	day	nit	d&n	day	nit	dtn	day	nit	den
Percent occurrence	3!	39	35	38	37	34	36	42	39	27	37	32	31	41	36
AYG top ht Kft			5.5			5.5	1		4.4			5.9			6.2
AVG thickness Kft	i i		.39	ł		.36	l		.47			.36			. 38
AVG trap freq GHz			.41			. 42			.27			.51			.45
AVG lyr grd -N/Kft			61			64	1		64			59	l		58
AVG lur base Kft	<u> </u>		5.2	<u>L</u>		5.2			4.1			5.7	L		6.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT O	CCURRENCE	YE	ARL	Y	J:	AN-M	AR.	Al	アスーゴリ	UN	31	UL-SI	EF	0:	T-DE	EC
		dav	nit	dan	day	rit	d&n	day	nıt	d&n	day	nit	dån	day	nit	dån
0 to 1	0 Feet	5	4	5	4	3	4	10	8	- 9	4	3	4	3	2	2
10 to 21	8 Feet	3	4	3	3	4	4	4	6	5	2	4	3	2	2	2
20 10 3	0 Feet	5	7	6	5	7	6	6	11	9	4	7	5	_ 3	5	4
30 to 4	0 Feet	7	10	9	9	11	10	9	15	12	6	16	8	6	7	5
40 to 5	0 Feet	10	15	13	14	18	16	11	16	13	9	15	12	9	12	10
50 10 6	0 Feet	12	17	14	16	29	18	11	14	13	10	18	14	11	15	13
60 10 7	0 Feet	12	14	13	16	16	16	9	10	10	10	15	12	14	17	15
78 to 8	0 Feet	10	10	10	11	10	11	7	6	6	8	9	9	13	15	14
88 to 9	0 Feet	7	_ 6	6	6	5	5	4	.3	_ 4	6	5	- 6	18	10	10
90 to 1	00 Feet	4	3	4	3	2	3	3	2	2	7	3	3	7	- 6	:-
above 1	00 Feet	25	9	17	14	5	9	27	9	18	36	12	24	23	8	15
Hean hei	ght Feet	83	66	71	69	56	62	80	54	_67	99	65	82	82	€6	74

PARAMETER	Y	ARL'	Ý	Jí	H-H	R	AF	R-J	UN	Jt	JL-S	Ρ	06	T-DI	ĒĒ -
	day	nit	dŧn	day	nit	dŁn	day	nit	d&n	ರೆತ್ತಿ	211	dt r₁	day	nit	d: n
% occur EL&SB dcts			4			2			- 5			3			- 5
% occur 2+ EL dcts	ł		8	1		5			9			10	!		6
AVG station H	ł		357			338			366			384	1		248
AVG station -N/Kft	ĺ		18			14			19			21	i		16
AVG see uind Kts	15	15	15	16	16	16	13	12	13	14	13	13	18	18	: 3

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(*) INDICATES INSUFFICIENT DATA Specified location: 26 12 H 127 40 E

Radiosonde source: 47936 26 12 N 127 40 E

Radiosonde station height: 95 Feet 25 00 N 125 00 E Surface obs source: MS96

DEDICAT OCCUPATION OF EMBANCES CHARGOST TO CHARGOS BARADSTON COM DOMESTO

PERLENI DE	CORRENCE OF	Effic	THIL	ED 3	OKE	166-	10-36	JKFRL	E RF	UNK	2311	107	KUNI	<u> </u>		
FREQU	ENCY	YER	RLY		JF	าห-ห์ค	38	AF	R-JL	111	Ji	JL-SE	EP	Ö	CT-DI	EC
i		lay n	nit	d&n	day	nit	d&n	day	nit	dan	day	ret t	d&n	day	nit	dan
100 M	Hz	0	Ø	8	¥	*	+	Ð	0	0	9	0	0	8	8	9
1 6	Hz	29	10	20	¥	*	*	28	9	18	36	13	24	23	9	16
3 G	Hz	41	20	30	*	*	¥	35	14	25	47	28	34	40	26	_ 33
6 G	Hz	71	60	66	#	*	*	61	44	53	75	62	68	78	73	75
10 G	Hz	87	84	86	¥	*	*	88	74	77	89	86	88	93	91	92
28 G	Hz	92	91	92	*	*	_ * _	87	85	86	93	93	93	96	96	96

SUPPRIE BROED DUCT 3	SOULI	nr 1 .													
PARAMETER	Y	EARL'	Y	J	AN-MI	ar .	RI	PR-J	UH	- 51	UL-SI	EP .	0	ות-דכ	EC
	day	ni <u>t</u>	dŁn	day	nıt	d&n	day	nit	d&n	day	nit	dan	day	nit	den
Percent occurrence	1	1	1	Ø	9	Ø	2	1	2	Ø	1	1	0	i	
AVG thickness Kft	l		.33	1		¥			.44	i .		.26			.28
SVG trap freq GHz	l		1.4	l		#			1.7			1.4			1.1
AVG lyr grd -N/Kft		_	781	L		¥			376			999			459

FLEVRIED DUCT SUMMARY:

PARAMETER	Y	EARL	<u> </u>	J	BN-MI	RR	A	R-JI	UN	Ji	JL-SI	EΡ	00	CT-DI	C
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	11	13	12	10	13	12	17	16	17	9	12	11	9	12	11
AVG top ht Kft			4.8			4.6			4.0			4.4			6.0
AVG thickness Kft			. 47			. 34			.67			.4^	1		. 39
AVG trap freq GHz			.82	i		.82			.23			.48			1.7
AYG lyr grd -H/Kft			56	ĺ		55			68	ŀ		55	ł		54
AVG lur base Kft			4.4	İ		4.3			3.6	•		4 0	l		5.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT 0	CCURRENCE	YI	EARL'	ľ	J	คห-ห	BR	R	PR-J	JH	J	UL-SI	P	Š	CT-DE	EC
		day	nıt	d&n	day	nit	d&n	day	nit	dan	day	n11	dan	day	nit	d² n
8 to 1	0 Feet	5	4	5	4	3	4	10	8	9	4	3	4	3	2	2
10 to 2	0 Feet	3	4	3	3	4	4	4	6	5	2	4	3	2	2	2
20 to 3	0 Feet	5	7	6	. 5	7	6	_ 6	11	9	4	. 7	5	3	5	4
30 to 4	0 Feet	7	10	9	9	11	10	9	15	12	6	10	8	6	7	6
40 to 5	B Feet	10	15	13	14	18	16	11	16	13	9	15	12	9	12	10
50 to 6	8 Feet	12	17	14	16	20	:8	11	14	13	10	18	14	11	15	13
68 to 7	0 Feet	12	14	13	16	16	16	9	10	10	13	15	12	14	17	15
78 10 8	0 Feet	18	10	10	11	10	11	7	6	6	8	9	9	13	15	14
80 to 9	0 Feet	7	6	6	6	5	5	4	3	4	6	5	6	16	10	19
90 to 1	00 Feet	4	3	4	3	2	3	3	2	2	4	3	3	7	- 6	7
above 1	88 Feet	25	9	17	14	5	9	27	9	18	36	12	24	23	8	15
Mean her	ght Feet	83	60	71	69	56	62	88	54	67	99	65	82	82	66	74

PARAMETER	YE	ARL	Y	Jí	H-H	AR	AF	R-Ji	141	Jt	JL-SI	P	00	T-DE	EC
	day	nit	dtn	day	nıı	den	day	nit	den	day	nii	dan	day	nt	ರಕ್ಷಣ
% occur EL&SB dcis			в			- 0			6			0			- 6
% occur 2+ EL dcts			1	l		1			9			1			9
AVG station N	l		363			338			374			387			354
AYG station -H/Kft			15			13			17			18			13
AVG sfc wind Kts	15	15	15	16	16	16	13	12	13	14	13	13	18	18	18

HISTORICAL PROPAGATION CONDITIONS SUMMERY

Specified location: 28 22 N 129 33 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 47989 28 22 N 129 33 E

Radiosonde station height: 968 Feet Surface obs source: MS96 25 00 N 125 00 E

CEDICAT OCCUPATOR OF ENHANCED SUBFACE-TO-SUBFACE DADAD/ESH/COM DANGES

FERCEN: OCCORRENCE	UF EI	MHM	LED :	20K+1	HL 2 -	10-50	SKEH	. E RI	HUHR	. E 214	<u> Cun</u>	KHN	3E>i		
FREQUENCY	YI	ERRL'	Y	J	AH-KA	R	RI	PR-JI	UN	3	JL-S	EP	01	CT-DE	ĒŪ
	day	211	d&n	day	nıt	d&n	day	nit	d&n	day	nit	d&n	day	nit	dån
100 MHz	0	9	9	9	8	0	9	1	0	Ð	9	9	0	0	9
1 GHz	25	9	17	14	5	9	27	11	19	37	13	25	23	8	15
3 GHz	36	19	27	23	12	17	35	17	26	47	21	34	46	25	33
6 GHz	70	59	65	66	57	61	61	46	53	75	52	وع	78	72	75
18 GHz	88	85	86	88	86	87	86	75	78	89	86	83	93	91	92
20 GHz	92	92	92	93	93	93	86	85	86	93	93	93	96	96	96

SURFACE BASED DUCT SUMMARY:

IREPS REV 2.1

PARAMETER	Y	EARL	Υ	J	คท-ห	6R	A!	PR-JI	UN	3,	JL-SI	EP	01	CT-D	EC
	day	nit	d&n	day	nıţ	d&n	day	nit	den	da	nit	650	dau	nit	dt -
Percent occurrence	1	1	1	1	0	1	1	- 1	3	1	1	1	0	0	- 9
AVG thickness Kft	l		.89	ĺ		.24	1		1.0			1.3	l		1.0
AVG trap freq GHz	1		. 43			. 84	į		.53			.21			. 15
AVG lyr grd -N/Kft			120			171	<u> </u>		109			97	<u> </u>		102

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	J	AH-H	AR .	BI	R-J	UH.	71	JL-SI	EP	00	T-Di	EC
	day	nıt	d&n	day	nit	dån	day	nıt	den	da	nit	din	day	nıt	dsn
Percent occurrence	14	16	15	9		- 9	24	25	25	10	14	12	14	15	15
AVG top ht Kit			4.2	1		4.5	1		3.2			4.3			4.6
AVG thickness Kft	_		. 53	<u> </u>		.31	L _		.61			.72		_	. 44
AVG trap freq GHz			.39			.74			.23			.18			.40
AVG lyr grd -N/Kft			57	l		61	ŀ		56	Į .		57			56
AVG lyr base Kft			3.8	L		4.3	L		2.7			3.8			4.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCURRENCE	Y E	EARLY	4	J	คห-หเ	AR	A	PR-J	JH		UL-SI	ÉP	0.0	CT-DI	EC
1		day	nıt	dan	day	nıt	d&n	dav	nıı	48.~	day	011	dtn	day	nit	dtn
0 to	10 Feet	5	4	5	4	3	4	10	8	9	4		4	3	2	2
10 to	28 Feet	3	4	3	3	4	4	4	6	5	2	4	3	2	2	2
20 10	30 Feet	5	_ 7	6	5	7	- 6	6	11	9	4	7	5	3	5	4
38 to	40 Feet	7	10	_9	9	11	18	9	15	12	٥,	:0	8	6	7	5
40 to	58 Feet	18	15	13	14	18	16	11	16	13	9	15	12	Э	12	14.
50 to	68 Feet	12	17	14	16	20	18	11	14	13	19	18	14	11	15	1 >
60 to	70 Feet	12	14	13	16	16	16	9	13	10	10	15	12	14	17	:5
70 to	80 Feet	18	10	10	11	10	11	7	6	6	8	9	9	13	15	2.4
80 to	98 Feet	7	6	6	- 6	5	5	4	3	4	_ 6	5	- 6	10	16	16
90 to	100 Feet	4	3	4	3	2	3	3	2	2	7	3	3	7	6	7
above	100 Feet	25	9	17	14	5	9	27	9	18	36	12	24	23	٤	15
Mean he	ight Feet	93	60	71	69	56	62	80	54	67	99	65	82	82	66	_ +]

PARAMETER	YE	ARLY	·	Ji	111-111	AR	AF	-3-JI	311	31	JL-S	EP	0	T-DE	C
	day	nıt	dŧn	day	nıt	din	day	nit	den	dayı	n1*	dt	dan	nit	선기
% occur ELLSB dcts			8			9			0			O			ō
% occur 2+ EL dcts			1			9			2			0			1
AVG station N	Į		344	i		322			348	İ		373			332
AVG station -N/Kft	Ì		15			12			17			19			13
AVG sfc wind kts	15	15	15	16	16	16	13	12	13	14	13	13	18	18	18

IREPS REV 2.1

Specified location: 28 27 N 121 52 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 58666 28 27 N 121 52 E

Radiosonde station height: 676 Feet

Surface obs source: MS96 25 00 H 125 00 E

DESCRIPT OCCUPSENCE OF EMPANCED SUPERICE_TO_SUPERICE PARAP FSM COM PANCES

BEKCENT OF OKKENTE	UF E	ннни	เธม	PORFI	HLE-	10-20	JEFRI		TUNK	E 24.	LUM	P PITE	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		
FREQUENCY	Y	EARL'	Ÿ	J	AH-M	R.	Al	PR-JI	JK	5	UL-SI	ĒΡ	00	CT-DI	EC
1	day	nıt	dan	day	nıt	dan	day	nıt	d&n	day	nit	dan	day	nit	den
100 HHz	1	8	1	9	8	9	1	2	1	4	0	2	0	0	9
1 GHz	27	10	18	15	5	10	29	15	22	40	12	26	23	8	16
3 GHz	38	19	29	25	12	18	37	21	29	50	20	35	40	25	33
6 GHz	71	60	65	67	57	62	62	49	56	77	61	69	78	.2	75
10 GHz	88	85	8€	88	86	87	81	77	79	90	8€	88	63	91	92
20 GHz	93	92	92	94	93	93	87	86	27	94	93	93	96	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL	Ŷ	J	AH-HI	1R	Al	R-J	JИ	JI	JL-SI	EP	01	CT-DI	EC
	day	011	dån	day	nıt	d&n	day	nit	d&n	day	nit	den	day	nıt	din
Percent occurrence	5	2	3	6	9	3	5	_ 9	7	6	0	3	1	0	1
AYG thickness Kft			. 57	!		. 15	i		. 60			1.5			.08
AVG trap freq GHz			1.3			3.6			. 45			. 06	1		1.1
AVG lyn grd -N/Kft			264	l		319			128			94	L		51?

ELEVATED DUCT SUMMARY:

PARAMETER	ΥE	EARLY	Y	J1	AN-M	AR	A	R-J	JH.	Jŧ	JL-SI	EΡ	1 6	CT-DI	EC
<u> </u>	day	nıı	d&n	day	nit	dan	day	nıt	dan	dav	กาะ	ರ೩n	day	n:t	di n
Percent occurrence	4	- 5	5	2	0	1	5	7	6	6	8	7	3	5	
AVG top ht Kft			4.9			5.0	i		3.4	1		2.6			8.4
AVG thickness Ift			.43			. 20	L		.54			.70	L	_	.29
AVG trap freq GHz			.94			1.9			.41			.27			1.2
AVG lyr grd -H/Kft			58	l		53	i		57	l		57	1		63
AUG for base Kft	j		4.5	l		4.9	l		2.9	l.		2.1	;		8.2

EVAPORATION BUCT HISTOGRAM IN PERCENT OCCURPENCE:

PEPCENT OC	CURRENCE	YE	ARL	7	J	H-H	RR	Al	R-J	JH	J	JL-SE	P	01	T-DE	EC -
		dan	nit	d&n	day	nit	dŁn	day	nıt	den	day	nıı	den	day	การ	din
0 to 10	Feet	5	4	5	4	3	4	10	8	9	4	3	4	3	2	2
10 to 28	Feet	3	4	3	3	4	4	4	6	5	2	4	3	2	2	2
20 10 30	Feet	5	7	6	5	7	6	6	11	9	4	7	5	3	5	4
30 to 48	Feet	7	10	9	9	i 1	16	9	15	12	6	10	8	6	7	5
40 to 50	Feet	13	15	13	14	18	16	11	16	13	9	15	12	9	12	10
50 11 50	Feet	12	17	14	16	20	18	11	14	13	10	18	14	11	15	13
60 tc 78	Feet	12	14	13	16	16	16	9	10	10	19	15	12	14	17	15
70 to 86	Feet	18	10	19	11	10	11	7	٤	€	8	Ġ	9	13	15	; 4
86 10 29	Feet	i	- 6	6	€	5	_ 5	4	3	_ +	6	5	- 6	10	19	10
98 to 19	d Feet	4	3	4	3	2	3	3	2	2	7	3	3	7	- 6	7
above 10	0 Feet	25	ē	17	14	5	ė	27	9	18	36	12	24	23	8	15
Hean hein	hi Feer	83	68	71	69	55	62	89	54	67	99	65	82	82	66	74

CEHEPAL METEOPOLOGY SUMMARY:

PAPAMETER	YEAPLY	JAN-MAR	APR-JUH	JUL-SEP	OCT-DEC
1	day nit den	day nit den	dau nit dên	day nit den	day nit dan
% occur EL&SB dcts	9	8	1	0	U
% occur 2+ EL dats	9	0	9	9	9
AFG Station H	343	315	349	373	335
AVG station -N/Kft	13	12	16	28	13
ALG SEC WIND KEE	15 15 15	16 16 16	13 12 13	14 :2 12	18 18 18

HISTORICAL PROPAGATION CONDITIONS SUMMERY IREPS REV 2.1

Specified location: 25 01 N 121 31 E Radiosonde source : 46692 25 01 N 121 31 E Radiosonde station height: 30 Feet (*) INDICATES INSUFFICIENT DATE

Surface obs source: MS96 25 00 N 125 00 E

			CED .					_					<u> </u>		
FREQUENCY	Y!	EAPL	Y	Ji	AN-Mi	RR	A P	マネーチリ	JH	Jt	JL-SI	EP :	9	CT-D!	EC
<u> </u>	day	nit	dån	day	การ	d&n	day	nit	din	day	nıt	ರಕ್ಷ	day	nıt	den
108 MHz	1	1	1	0	8	- 0	8	0	0	1	1	1	1	0	1
1 GHz	27	18	18	14	6	10	28	18	19	46	15	27	24	18	17
3 GH≥	38	28	29	23	13	18	35	15	25	51	24	37	42	26	34
6 GHz	71	68	65	66	58	62	61	45	53	77	63	70	79	73	7€
10 GHz	88	85	86	88	86	87	80	75	78	98	87	89	93	91	92
28 GHz	92	92	92	93	93	93	87	85	86	94	93	94	96	96	96

SUPERICE RASED DUCT SURMARY.

	3011111	_													
PARAMETER	Y!	EUKT.	Y	J J	AH-M	AR	A	PR-J	ИK	Jı	リレーショ	EP	9	CT-Di	EC
	day	nıt	d&n	day	nıt	din	day	กเน	d&n	day	nit	ರ್ಷಗ	day	nit	dan
Percent occurrence	4	3	4	1	2	2	-3	2	3	9	- 6	8	3		3
AVG thickness Kft	l		.35			.49	l		.26	ĺ		.27	i		.37
AVG trap freq GHz	i		. 67	1		.27	l		1.4			.72	ļ		.32
AVG lyr and -N/Kft	L		337			289			386			548	L .		285

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	31	AN-MI	RR	A1	P-31	JN	Jŧ	JL-SI	ĒΡ	0	CT-DI	EC
_	day	nit	d&n	day	nit	din	day	การ	din	day	ni*	d\$n	da.	nit	42 ~
Percent occurrence	7	8	7	4	7	- 6	6	8	7	91	10	10	8	7	8
AYG top ht Kft	ļ		6.7			€.0	i		7.5			6.1	1		7.3
AVG thickness Kft	ĺ		. 59	l		. 43	i		. 67	ļ		.74			. 54
AYG trap freq GHz			.29			.54			.23			.19			.21
AVG lun gnd -N/Kft			66	ĺ		71	l		63			59			. 3
AVG lyr base Kft	i		6.3	į		5.7			7.0			5.6			7.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCC	URRENCE	Y	ARL.	Y	J	ĀN-11	aR .	AF	R-J1	JH .	J:	JL-SI	ΕP	00	CT-DE	C
		dau	nit	dan	day	711	dan	day	nıt	d&n	day	111	d\$n	day	nıt	dt n
0 to 10	Feet	5	4	5	4	3	4	10	8	ó	4	3	4	3	2	2
10 to 20	Feet	3	4	3	3	4	4	4	6	5	2	4	3	2	2	2
28 to 30	Fe۠	_ 5	7	6	5	7	6	6	11	9	4	7	5	3	5	4
30 to 40	Fee*	7	18	9	9	11	10	9	15	12	6	10	8	6	7	. 6
40 to 50	Feet	19	15	13	14	18	16	11	16	13	9	15	12	9	12	18
50 10 60	Feet	12	17	14	16	28	18	11	14	13	10	19	14	11	15	13
50 to 70	Feet	12	14	13	16	16	16	9	10	18	10	15	12	14	17	15
70 to 80	Feet	19	10	10	11	19	11	7	6	6	8	9	9	13	15	14
80 to 90	Feet	7	6	6	6	5	_ 5	4	3	4	6	5	€	10	19	10
90 to 100	Feet	4	3	4	3	2	3	3	2	2	7	3	3	7	6	7
above 100	Feet	25	9	17	14	5	9	27	è	18	36	12	24	23	8	15
Hean heigh	t Feet	33	68	71	69	56	62	88	54	67	99	65	82	82	66	74

GENERAL METEOPOLOGY SUNNAPY:

PARAMETER	Y	ERRL'	Y	31	H-HA	AR	AF	- F-J	JH	Ji	JL-39	P	G:	CT-DI	ič –
	day	nit	d£n	day	nit	din	day	21.0	dtn	da	F 1 1	ರಕ್ಕ	day	nit	di n
% occur EL&SB dc&s			9			0			0			-2	Γ-		0
% occur 2+ EL dcts	ł		9	İ		9	i		0			1	i		0
AVG station N			366	l		344	l		376			383	J		359
RYG station -N/Kft			15			13	l		16			17	l		14
AUG Efc wind Fis	15	15	15	1€	16	16	13	12	13	14	13	13	12	13	: 8

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The second of the second management of the second of the s

(+) INDICATES INSUFFICIENT DATA 25 Ø3 N 121 13 E Specified location:

Radiosende source : 46697 25 03 N 121 13 E

Radiosonde station height: 157 Feet Surface obs source: MS96 25 80 N 125 80 E

PERCENT OCTURRENCE	OF E	нан	CED S	SUPF	RCE-	ro-st	JRFA(CE R	ADAR	'ESM	COM	PAN	<u> </u>		
FREQUENCY	Y	EARL	Ϋ	J	H-H	R.	Ai	R-J	UH	3	ひと-5	EP	0	CT-DI	EC
i	day	การ	dŧn	day	nit	dŧn	day	nit	d&n	day	nit	den	day	110	den
100 MHz	1	1	1	1	0	8	2	1	1	1	1	1	1	1	1
1 GHz	27	11	19	16	6	11	30	12	21	40	16	28	24	10	17
3 GHz	39	21	30	25	14	19	38	17	28	51	24	38	42	28	35_
6 GPz	72	61	66	67	58	62	63	47	55	77	64	71	79	74	7.6
18 GHz	88	85	97	88	86	87	92	76	79	90	87	39	93	92	92
20 GHz	93	92	92	94	93	93	88	86	87	94	93	94	96	96	96

PARAMETER	Y	ERRL	Y	JI	AH-M	AR	RI RI	R-J	UH	JI	JL-SI	P	00	T-Di	EC
	day	nit	dŧn	day	nit	d&n	day	nit	d&n	day	nıt	dŧn	day	nıt	den
Percent occurrence	8	6	7	4	3	4	10	7	9	11	8	18	5	5	5
AVG thickness Kft)		.28	l		. 22	ĺ		.28	ł		.28	l		.36
AVG trap freq GHz	I		1.2	l		. 75	i		1.7	ł		1.6	1		1.3
AYG lun and -N/Kft	l		137	l		141	i		141			142	l		125

FI EVATED DUCT SUMMARY:

PARAMETER	Y	EARL	Υ	J	AK-HI	AR	Ai	PR-J	JH	30	JL-SI	EP	01	CT-DE	EC
	day	កា៖	d&n	day	nit	den	day	nıt	d&n	day	nit	din	day	การ	din
Percent occurrence	22	27	24	25	37	31	28	24	22	15	19	17	27	26	27
AVG top ht Kft	ļ		5.8	ļ		6.3	l		5. 1	ļ		5.4			6.4
AVG thickness Kft	i _		.∢5	L		.36			. 52			.50	<u> </u>		.44
AVG trap freq GHz			.34			.44			.30			.26			.36
AVS typ grd -N/Kft			59	i		59			58	i		59	İ		69
AVG lyr base Kft	l		5.5	Ĭ		6.1	ı		4.7			5.1			6.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURPE	ICE Y	LARL	Y	J	AN-M	AR	A	R-JI	JN	31	JL-SE	P	Ot	:T-DE	C
	day	25 P Z	<u>atn</u>	dav	nit	d£n	day	011	den	day	011	dèn	day	กรร	dtn
0 to 10 Fee	5	4	5	1	3	4	16	8	9	4	3	4	3	2	2
10 to 20 Fee	: 3	4	3	3	4	4	4	6	5	2	4	3	2	2	2
20 to 30 Fee	<u> 5</u>	7	. 6	5	. 7	6	6	11	9	4	_ 7	5	_ 3	5	4
30 to 40 Fee	7	10	9	9	11	10	9	15	12	6	16	8	6	7	- 5
40 to 50 Fee	. 10	15	13	14	18	16	11	16	13	ءِ ا	15	12	9	12	10
50 to 60 Fee	12	17	14	16	29	18	11	14	13	10	:8	14	11	15	13
60 to 70 Fee	12	14	13	16	16	16		10	10	10	15	12	14	17	15
70 to 80 Fee	10	10	13	11	19	11	7	6	6	ε	9	9	13	15	14
80 to 90 Fee	. 7	€	6	6	5	5	4	3	4	_6	5	5	_10	16	10
90 to 100 Fee	. 4	3	4	3	2	3	3	2	2	4	3	3	7	6	7
above 100 Fee	25	9	17	14	5	9	27	9	18	36	12	24	23	8	15
Hean height Fe	et 83	60	71	69	56	62	80	54	67	99	65	82	82	66	~4

PARAMETEP	YE	APL	Y	Ji	SH-H	AR	Я	R-J	UH	Jt	JL-SI	EF	06	CT-DI	EC
	gay_	PIL	dån	day	กาะ	den	day	nit	d&n	day	nit	dtr	da	nit	dsn
% occur EL&SB dcts	i		1			1			1			1			1
% occur 2+ EL dcts			4	l		7	l		5	ł		3	1		3
AVG station N	İ		361	ŀ		341	l		371			381			350
RYG station -N/Kft	i		16	ł		14	!		18			19	ŀ		15
AVG afc wind its	15	15	15	16	16	16	13	12	13	14	13	13	18	18	18

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 22 28 N 120 25 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 46747 22 28 N 120 25 E

Radiosonde station height: 26 Feet Surface obs source: HS96 25 88 N 125 08 E

DEPOSIT OCCUPRENCE OF ENHANCED SUPERCE-TO-SUPERCE BRIDDY ESM COM PANCES.

FREQUENCY	Y	EARL'	Y	Ji	RN-MA	iR	Af	R-JI	JN	Jt	JL-SI	EP	-00	CT-D	EC -
	day	nit	d&n	day	nıt	din	day	nit	d&n	day	nit	d&n	day	nit	dtr
100 MHz	1		1	1	1	1	1	2	1	1	2	2	2	1	
1 GH2	29	14	21	18	8	13	38	16	23	48	19	29	27	13	20
3 GHz	40	24	32	27	_ 16	22	38	23	36	50	27	39	44	36	:7
6 GH≥	72	62	67	68	59	64	63	51	57	77	65	71	86	74	77
10 GHz	88	86	87	89	87	88	81	78	79	98	88	89	93	92	93
20 GHz	93	93	93	94	93	94	87	87	87	94	94	94	96	96	96

CHECACE RACED BUCT SUMMARY

PARAMETER	Y	EARL	Υ .	- 31	ลห-พ	32	AF.	P-JI	ž	30	L-\$1	4	O	CT-DE	Č
	day	การ	d&n	day	nit	đěn	day	nit	dan	day	11t	đěn	day	nit	dt n
Percent occurrence	8	10	9	8	6	7	7	14	11	8	11	10	8	7	— ຮັ
AVG thickness Kft	•		. 42			.41			.44			.41			.42
AVG trap freq GHz			.58			.70			.75	İ		.49			.37
AVG for and -N/Kft	i		136			178	ŀ		124			137	!		110

ELEVATED DUCT SUMMARY:

PARANETER	۲۱	EARL'	Ý	Ji	H-H	f:R	AI	R-JI	אנ	_ J:	JL -51	P	—	-DI	EC
	day	nit	dan	day	nit	dln	day	nit	d&n	day	nıt	den	day	703 E	_dtr
Percent occurrence	20	21	28	30	31	31	10	19	15	9	14	12	29	20	2:
AVG top ht Kft	1		7.1	1		7.7	1		6.5			7.4	l		6.9
AVG thiciness Ift			. 45	i .		.43			.49	l		. 45	<u> </u>		42
AVG trap freq GHz			.38			.41			.33			.45	i		-3:
AVG lyr grd -N/kft	l		69	ŀ		61	l		63			56	j		61
AVG lur base Kft	i		6.8	ĺ		7.4	l		6.2	l		7.0	Į		6.

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YE	ARL'	8	J	AN-M	AR	AF	R-J!	JN	Ji	IL-SE	P	90	T-DE	:c
_	day	nit	din	day	711	d&n	day	nit	d&n	day	211	den	dav	nit.	den
0 to 10 Fee:	5	4	5	4	3	4	16	8	9	4	3	1	3	2	2
10 to 20 Feet	3	4	3	3	4	4	4	6	5	2	4	3	2	2	2
20 to 30 Feet	5	7	6	5	7	6	6	11	9	4	7	5	3	5	4
30 to 40 Feet	7	18	9	9	11	10	9	15	12	6	10	8	6	7	6
40 to 50 Feet	10	15	13	14	18	16	11	16	13	9	15	12	9	12	: 3
50 to 60 Feet	12	17	14	16	28	18	11	14	13	10	18	14	11	15	13
69 to 70 Feet	12	14	13	16	16	16	9	10	10	10	15	12	14	17	15
70 to 80 Feet	10	10	18	11	10	11	7	6	6	8	9	9	13	15	14
80 to 40 Feet	7	6	6	6	5	5	4	3	4	6	5	6	10	10	10
90 to 100 Feet	4	3	4	3	2	3	3	2	2	4	3	3	7	6	7
above 100 Feet	25	9	17	14	5	9	27	9	18	36	12	24	23	8	15
Hear height Feet	83	60	71	69	56	62	88	54	67	99	65	82	82	66	74

GENEPAL PETEOROLOGY SUMMAPY:

PARAMETER	YERKLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit din	day nit din	day nit din	das nit den	day nit din
% occur EL&SB dcts	2	2	2	1	2
% occur 2+ EL dcts	3	4	1	2	7
RVG station N	374	355	384	391	367
AVG station -N/Kft	18	16	20	28	17
AVG sic und Kts	15 15 15	16 16 16	13 12 13	14 13 13	18 18 13

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Specified location: 20 01 N 110 21 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 59758 20 01 N 110 21 E

Radiosonde station height: 59 Feet

Surface obs source: MS97 25 00 N 115 00 E

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

PERCENT OCCURRENCE	Ur E	MHHM	י עבט	SUKFI	4.E-	10-20	76 C D(~	חשחה	E 311	CON	PRIN	<u> 323.</u>		
FREQUENCY		EARL'			ห-หร			PR-JI			UL-SI			,T-DI	
l	day	nit	d&n	day	nıt	dtn	day	ni t	din	day	nit	d&n	day	711	d\$n
188 MHz	2	2	2	1	1	1	3	2	3	3	2	2	2	2	2
1 GHz	29	16	22	17	9	13	35	19	27	41	21	31	21	1 €	18
3 GHz	39	24	32	24	14	19	44	25	34	52	29	46	37	29	33
6 GH≥	67	56	61	56	46	51	63	49	56	74	59	67	74	69	72
10 GHz	85	81	83	83	78	80	88	75	77	88	83	86	91	90	90
20 GHz	91	90	90	98	98	89	86	85	25	93	91	92	95	95	95

SURFACE BASED DUCT SUKHARY:

PARAMETER	Y	ARL	<u> </u>	J	คห-ห	AR	Al	R-J	אט	J	JL-\$	ΕP	0	CT-DI	EC
_	day	nit	d&n	day	nit	dan	day	nit	dln	day	การ	den	day	nit	d&r
Percent occurrence	17	13	15	9	4	7	26	18	22	22	15	19	10	14	12
AVG thickness Kft	!		. 25	1		.31	1		.22	1		. 16			.33
AVG trap freq GHz	ł		.77	l		.88	1		. 85	ĺ		.92	ĺ		.51
AVG lyr grd -N/Kft			136			153			142			121	<u> </u>		126

ELEVATED DUCT SUMMARY:

PARAHETER	Y	ERRL'	Y	J	AH-H	AR	R	PR-JI	אט	7	JL-SE	P	Ö	ĒΤ-D!	EC
	day	nıt	d&n	day	nit	d&n	day	nit_	dŁn	day	กาเ	d&n	day	nit	d&n
Percent occurrence	4	4	4	6	7	7	3	3	3	3	- 2	3	4	5	5
AVG top ht Kft	i		4.6			6.4	ļ		2.9	!		3.6			5.5
AVG thickness Kft	1		. 48	1		. 45	i		. 45		_	.52			.51
AYG trap freq GHz			.73			.79			1.6	Γ''		. 48			.31
AVG lyr grd -N/Kft			•9	ì		56	i		64			58			58
AVG lyr base Kf:	_	_				6.1	l		2.6			3.2			5.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCE	NT	000	UPRENCE	Y	ARLY	7	Ji	ลห-หเ	AR	A	PR-JI	UN	J:	JL-SE	P	00	T-DE	C
				day	nıt	din	day	ntt	d&n	day	nit	den	day	nit	den	day	nit	<u>ರ೩ಌ</u>
8	ŧo	18	Feet	7	Ď,	7	7	5	7	12	11	11	6	6	- 6	3	3	3
10	to	28	Feet	4	5	5	4	6	5	6	7	7	3	5	4	3	3	3
20	to	30	Feet	6	10	8	8	11	9	8	12	10	_5	10	7	4	6	5
30	10	40	Feel	10	13	11	13	14	14	10	15	:3	8	11		7	10	8
40	to	50	Feet	12	16	14	15	19	17	11	15	13	10	16	13	11	14	12
59	10	60	Feet	12	15	14	16	17	17	19	! 4	12	18	15	12	13	16	14
60	ŧυ	70	Feet	11	11	11	11	10	11	7	7	7	10	12	11	15	16	15
70	10	86	Feet	8	7	8	7	6	ε	5	5	5	7	6	7	13	13	13
80	10	90	Feet	5	4	_ 5	4	_ 3	3	3	2	3	_ 5	4	4	9	8	9
90	10	100	Feet	4	2	3	2	1	- 2	2	1	2	4	2	3	6	5	-6
abo	ove	198	Feet	22	10	16	13	7	18	24	18	17	34	15	24	15	7	11
Hear	h h	1gh	t Feet	75	58	67	63	52	57	74	53	63	63	64	74	72	62	67

PARAMETER	YE	APL'	Y	31	3H-M	R.	AP	P-J	ルド	JU	1 L - 2 i	P	06	T-DS	EC
L	JZy	nit	den	dau	011	den	day	nit	೨೬ -	ქa∵	P11	dar	da	r	din
# occur ELESE ccts			0		_	0			0			1			
toccur 2+ EL dets	ļ		8	1		8	1		8	ì		8	İ		Û
AVG station it			372	l		351			383			389			363
AVG station -N/Kft			17	l		13			19			19			16
AVG sfc wind Kts	15	15	:5	17	16	17	12	11	12	13	12	12	22	20	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMAPY

Specified location: 22 19 N 114 10 E (*) INDICATES INSUFFICIENT DATP

Radiosonde source : 45884 22 19 N 114 10 E

Radioschde station height: 213 Feet

Surface obs source: MS97 25 00 N 115 00 E

PED: ENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM PANGES:

LEACEN, OCCOR	CHILL OF THE	1000	20r. ·		0 3	231 110		10111			4 11111	<u> </u>		
FREQUENC	YEA	RLY	JF	H-HF	ìR	AF	R-JU	IN	Jt	JL-SE	EP T	00	T-Da	EC
l	day n	it din	day	nit	dŁn	day	nit	d&n	day	nit	dtn	day	nit	327
100 HHz	9	8 8	9	9	0	0	_0	9	Ø	- 9	9	Θ	8	0
1 GHz	22	10 16	13	7	18	24	11	18	35	15	25	17	7	12
3 GHz	31	17 24	19	11	15	39	15	_22	44	_21	32	32	29	26
6 GHz	62	51 56	53	44	48	52	49	46	70	54	62	73	65	69
10 GHz	83	79 81	81	77	79	74	70	72	86	80	83	90	88	€ 3
20 GHz	89	88 89	89	88	88	81	82	82	91	_90	98	94	_94	94

SUPFACE PASED BUCT SUMMARY:

PARAMETER	Y	EARL	7	J	RH-MI	₹R	AF	オーゴ	JN	Ji	JL-SE	P	01	CT-DI	EC
	day	nit	d&n	day	nit	d&n	day	กาเ	dŧn	day	nit	dtn	day	nit	dan
Percent occurrence	2	1	2	1	8	1	8	2	1	5	1	3	3	0	2
AYG thickness Kft			. 34	l		. 19	i		.58	ĺ		. 25	l		. 35
AVG trap freq GHz			2.1	1		3.1			1.9			2.5	1		.80
AVG lur grd -H/Kft			256			391			165			149			320

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Ÿ	J	AN-M	AR.	RI	PR-JI	אט	J	JL-SI	EP	Ö	CT-DI	ĒČ
	day	กาเ	dkn	day	nit	dan	day	nit	d&n	day	nit	d&n	day	nıt	din
Percent orcurrence	4	11	8	5	7	-6	5	13	9	4	16	10	3	7	5
AVG top At Kft			4.3	ĺ		5.1	[3.6	ĺ		3.4	1		5.3
AVG thickness Kft	,		.37			. 27	L	_	35	l		.37			. 49
AVG trap freq GHz			. 56			1.1			.45			.€3			.47
AVG lyr grd -H/Kft			57	i		52			59	ļ		59			EPR
AVG lyr base Kft			4.2			4.9			3.3	L		3.1	L		5.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPPENCE:

PERCENT OCCURRE	HCE Y	ERRL	Υ	J	คพ-ท	AR .	AF	<u>-1</u> i	JH.	3	UL-5!	EP	0	CT-DE	C
	das	110	din	day	การ	d&n	day	การ	dan	day	nit	din	day	nit	dt-ı
0 to 10 Fee	1 7	6	7	7	5	7	12	11	11	6	6	6	3	3	3
10 to 20 Fee	t [4	5	5	4	6	5	6	7	7	3	5	4	3	3	3
20 to 30 Fee	1 6	10	8	8	11	9	8	12	10	5	10	_ 7	4	6	_ 5_
30 to 40 Fee	1 18	13	11	13	14	14	10	15	13	8	11		7	10	ੌਤ
40 to 50 Fee	: 12	: 16	14	15	19	17	11	15	13	10	15	13	11	14	:2
50 to 60 Fee	1 12	15	14	16	17	17	18	14	12	10	_ 15	_12	13	16	. : 4
60 to 70 Fee	t 11	11	11	11	18	11	7	7	7	19	12	11	15	16	15
78 to 80 Fee	ι ε	7	8	7	€	6	5	5	5	7	6	7	13	13	13
90 to 90 Fee	<u> </u>	4	5	4	3	3	3_	2	3	5	4	4	9	8	_ 9
90 to 100 Fee	. 4	2	3	2	1	2	2	1	2	4	2	3	6	5	- 5
above 108 Fee	ι 22	10	16	13	7	10	24	18	17	34	15	24	15	7	::
Mean height Fe	et 75	58	67	63	52	57	74	53	63	93	64	_79	72	62	6

GENEPAL HETEOPOLOGY SUMMARY:

PARAMETER	YERP	LY	J	AN-MA	3R	AF	R-J	אני	7(JL-SI	EP.	6.	. T – Di	ú
	day ni	t din	day	nit	dan	day	nit	d&n	day	nit	gen	day	nit	din
% occur EL&SB dcts		8	Г		Ö			0			9			9
% occur 2+ EL dcts		1	l		1	i		0			1			อ
AVG station N		363	Í		342			378	i		385	ĺ		346
AVG station -N/Kft		15	l		12	l		13	i		18	ļ		:3
AVG sfc wind Vts	16 1	5 15	17	16	17	12	11	12	13	12	12	22	20	_21_

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119 34 E (*) INDICATES INSUFFICIENT DATA Specified location: 23 31 N 23 31 N 119 34 E Radiosonde source : 46734 Radiosonde station height: 125 Feet

Surface obs source: MS97 25 80 N 115 06 E

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESH COM PANGES:

FREQUENCY	TY	EARL	Y	J	AN-M	AR	RI	PR-JI	UH	J	UL-SI	EF	Ō	CT-DI	EC
1	day	nıt	dŁn	day	nit	dtn	day	nit	dån	day	nit	d£n	day	nit	d&n
100 HHz	1	1	1	1	1	ī	2	- 1	1	2	1	1	0	1	1
1 GHz	25	13	19	16	12	14	30	13	21	38	18	28	17	10	13
3 GHz	35	29	_28	23	17	29	37	17	27	47	25	36	32	23	28
6 GHz	64	53	59	55	48	51	58	42	50	72	5€	64	73	66	69
10 CHz	84	89	82	82	79	80	77	71	74	87	81	84	98	89	96
20 GHz	98	- 69	89	98	88	89	84	83	83	92	99	91	94	95	94

SUPFACE BASED DUCT SUMMAPY:

PARAMETER	_Y	EARL'	Y	Ji	RH-M	AR	H	PR-J	NH _	J	UL-S	EP	00	T-DI	EC
	day	การ	d&n	day	nıt	d&r	day	nit	d&n	day	nit	dan	day	rit	dan
Percent occurrence	9	7	8	5	7	- 6	15	6	11	12	3	10	3	5	4
AVG thickness Kft			. 55	1		. 53	1		. 49	1		.38			. 81
AVG trap freq GHz			.79	1		.36	1		1.1	1		1.0	ļ		.78
AVG lyr grd -N/Kft			133			139	<u>L</u> .		142			123	l		127

ELEVATED BUCT SUMMARY

PARAMETER	Y	EARL'		3	AN-HI	RR	AI	-8-1	אנ	Jŧ	JL-SI	Р	00	CT-DE	C
	day	nit	d&n	day	nıt	dŁn	day	nıt	dŁn	day	nit	d&n	day	nit	d&n
Percent occurrence	34	31	33	36	44	40	26	33	39	38	21	30	36	26	31
AVG top ht Kft			4.4			5.9	i		4.8	l		3.3			3.6
AVG thickness Kft			.51	l		.42	L		.51	<u> </u>		.57			.55
AVG trap freq GH2			.29			.39			.27			.29			.23
AVG lyr grd -II/Kft	l		61	l		61			62			68			60
AVG lyr base ift			4.1			5.6			4.4			2.9	l		3.2

EVAPORATION DICT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCUPA	ENCE	YEARL	Y	J	AN-N	RR	B	PR-J	UN	J1	UL-SI	EP	C	CT-DE	EC
	da	y nit	<u>dŁ</u> n	day	nit	<u>d&n</u>	day	nit	din	đay	กาเ	d&n	day	nit	d&n
0 to 10 Fe	et	7 6	7	7	6	7	12	11	11	6	6	6	3	3	3
10 to 20 Fe	et	4 5	- 5	4	6	5	6	7	7	3	5	4	3	3	3
_ 20 to 30 Fe	22	6 10	_8	8	11	. 9	8	12	10	5	18	7	4	6	5
30 to 40 Fe	et 1	0 13	11	13	14	14	18	15	13	8	11	9	7	10	8
40 to 50 Fe	et 1	2 16	14	15	19	17	11	15	13	10	16	13	11	14	12
50 to 68 Fe	et 1	2 15	14	16	17	17	10	14	12	10	15	12	13	16	14
60 to 70 e	et 1	1 11	11	11	10	11	7	7	7	16	12	11	15	16	15
70 to 80 fe	et	8 7	8	7	6	6	5	5	5	7	6	7	13	13	13
80 to 90 fe	et	5 4	5	4	3	3	3	2	3	5	4	4	9	8	9
98 to 188 Fe	et	4 2	3	2	1	2	2	1	2	4	2	3	6	5	6
above 100 Fe	et 2	2 10	15	13	7	10	24	10	17	34	15	24	15	7	11
Hean neight ?	eet 7	5 58	67	63	52	57	74	53	63	93	€4	79	72	62	67

PARAMETEP	YE	ARL'	Ÿ	3	AH-HI	BR	RP	'R-J	บห	31	JL-SI	P	00	T-DI	EC
	day	nit	d&n	day	nit	den	day	nit	din	day	nit	din	day	ការ	d&n
% occur EL&SB dcts			2			2			2			- 2			2
% occur 2+ EL dcis			7	l		10	İ		5			7	l		5
AVG station N			368			346			379	ł		398	l		357
AVG station -N/Kft			19			15			28			23			16
AVG sfc uind Kts	16	15	15	17	16	17	12	11	12	13	12	12	22	28	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 20 40 N 116 43 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source: 46810 20 40 N 116 43 E Radiosonde station height: 20 Feet

Surface obs source: HS97 25 00 H 115 90 E

PEPCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	,	ERRL	Y	JI	AK-KI	AR	RF	PR-JI	JH	Jŧ	JL-S	EP	01	CT-DI	EC
	day	nit	dŁn	day	nit	d&n	day	nit	d&n	day	nit	din	day	nit	d * 1
180 MHz		2	3	2	9	1	7	5	6	6	3	5	1	1	1
1 GHz	33	18	25	19	7	13	45	27	36	49	26	38	28	19	íS
3 GHz	44	26	35	26	11	18	55	34	44	61	36	49	36	24	38
6 GHz	78	57	64	57	44	50	71	55	63	88	64	72	74	67	78
10 GHz	87	82	85	83	77	88	84	78	8:	91	85	88	91	89	96
28 GH=	1 92	> รถ	91	1 9ฅ	83	89	89	87	88	95	92	93	95	95	G.

SURFACE BASED DUCT SUMMARY:

PARAMETER		EARL'	Ÿ	J	RH-M	AR	81	R-JI	אנ	J	JL-SE	P	01	CT-DE	EC
!	day	nıt	din	day	nit	d&n	day	nit	din	day	nst	dan	day	nit	dtn
Percent occurrence	26	15	21	9	- 0	5	41	27	34	44	27	36	10	7	
AVG thickness Kft	İ		.42	l		.79			.46			.23			.20
AVG trap freq GHz	i		.69	l		. 33			.47			. 95			1.0
AVG lun grd -N/Kft	L		183	L		144			141	<u> </u>		162	L		285

ELEVATED DUCT SUMMARY:

PARAMETER	7	EARL	7	Ji	H-HA	BR	A	PR-JI	JH	Ji	JL-SI	EP	00	CT-Di	EC
	day.	nit	din	day	nıt	den	day	nit	den	day	211	at r.	day	nit	dt n
Percent accurrence	25	16	21	43	25	34	15	20	18	5	<u>s</u>	7	35	11	
AVG top ht Kft	l		6.3	l		6.4	1		3.6			6.6	ŀ		8.5
AVG thickness Kft			.76			.47	<u> </u>		.67			1.1			.81
AVG trap freq GHz			.29			.41			.32			.32			.::
AVG lyr grd -H/Kft	İ		69	İ		59			68			78			. ,
AVG lur base Kft	1		5.8	İ		6.0	l		3.1	į		6.1			8.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT	OCCUPRENCE	Y	EARL'	Y	J	AN-M	AR	A:	PR-J	UH	3	UL-S	EΡ	0	CT-DE	EU
		day	nit	dtn	day	การ	dan	day	nit	den	dau	*** 1	<u>d: n</u>	day	011	d\$n
9 to	10 Feet	7	- 6	7	7	- 6	7	12	11	11	6	- 6	6	3	3	3
18 to	20 Feet	4	5	5	4	6	5	6	7	7	3	5	4	3	3	3
20 to	30 Feet	6	10	8	8	11	9	8	12	10	5	10	. 7	4	- 6	5
30 to	40 Feet	10	13	11	13	14	14	19	15	13	8	11	è	7	10	8
48 10	50 Feet	12	16	14	15	19	17	11	15	13	10	16	13	11	14	12
50 10	60 Feet	12	15	14	16	17	17	_10	14	12	10	15	12	13	16	1:
60 10	70 Feet	11	11	11	11	10	11	7	7	7	10	12	11	15	16	15
78 to	80 Feet	8	7	8	7	6	6	5	5	5	7	- 6	7	13	13	13
80 10	90 Feet	5	4	5	4	3	3	3	2	3	5	4	4	٥	8	9
90 to	100 Feet	4		3	2	1	2	2	1	2	1	<u>z</u>	3	6	5	_ੁ ਵਾ
åbov∉	100 Feet	22	16	16	13	7	10	24	10	17	34	15	24	15	7	: 1
Hean he	right Feet	75	_58	67	63	52	57	74	_ 53	_63	93	64	79	72	52	

PARAMETER	75	ARL	Y	J	111-111	AR	RF	P-3	UH	J	UL-S	LP.	00	T-D!	EC
	day	nıt	din	day	nit	dł-n	day	การ	dtn	day	211	den	day	nit	dt n
% occur ELESB dcts			2			1			1						5
% occur 2+ EL dcts			3			9	i		1	l		0	1		3
AVG station N			379	ĺ		362	Ì		390	ı		393	ļ		371
AVG station -N/Kft			20	!		17	i		23			22	j		16
AVG sfc wind Kis	:6	15	15	17	16	17	12	- 11	12	13	12	12	22	20	± 21

SH

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Ř.

(*) INDICATES INSUFFICIENT DATA 24 27 N 118 04 E Specified location: 118 94 E

Radiosonde source : 59134 24 27 H

287 Feet Radiosonds station height:

25 00 N 115 00 E Surface obs source: MS97

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESH/COM RANGES:

FREQUENCY	Y	EARL'	Y	JF	311-M	R	A1	PR-JI	JN	JI	IL-SI	EP '	01	CT-DI	ΞC
	day	nit	d&n	day	nit	dtn	day	nit	d&n	day	nit	dŁn	day	nit	d&n
100 MHz	2	1	2	1	0	1	- 2	1	2	3	2	2	2	1	1
1 GHz	28	13	21	17	8	13	31	15	23	42	21	31	21	9	15
3 GHz	38	21	39	24	13	19	39	28	30	52	29	41	37	22	_ 30
6 GHz	66	54	60	56	45	51	60	45	52	75	59	67	?5	66	70
10 GHz	85	88	83	33	78	80	78	73	75	89	83	86	91	89	90
20 GHz	91	89	98	90 ا	88	89	85	83	84	93	91	92	95	95	95

SUPPOSE BOSED DUCT SUMMARY.

PARAMETER	Y	EARL'	Y	J	N-KA	RR	AI	P-JI	JN	J	JL-Si	EP	00	CT-DI	EC
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nıt	d&n	day	nit	d&n
Percent occurrence	17	- 9	13	10	3	7	20	11	16	24	16	20	13	4	9
AVG thickness Kft	•		.23	l		.30	1		.19	l		. 16	1		. 27
AVG trap freq GHz			1.1	1		1.2	ĺ		1.3	l		1.1	1		.92
RVG lyr and -N/Kft	l		146	l		214	i		97	ı		100	ļ		172

ELEVATED DUCT SUMMARY:

YEARLY	JAN-MAR	RPR-JUN	JUL-SEP	OCT-DEC
day nit d&	day net dan	day nit dan	day nit dan	day nit dan
2 2	2 3 3	2 2 2	2 2 2	2 2 2
7.	7.7	7.9	6.4	6.2
.4	.38	.68	.42	.36
2.	2.9	.76	2.6	2.1
6	2 55	85	53	54
6.	7.4	7.5	6.1	5.9
	day nit dar 2 2 2 7.1 .4- 2.1	day nit day day nit dan 2 2 2 3 3 7.1 7.7 .44 .30 2.1 2.9 62 55	day nit dan day nit dan day nit dan day nit dan 2 2 2 3 3 2 2 2 7.1 7.7 7.9 .68 .44 .30 .68 2.1 2.9 .76 62 55 85	day nit dtn day nit dtn day nit dtn day nit dtn day nit dtn 2 2 2 3 3 2 <

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCE	17	OCCI	JRRENCE	YI	ARL	Ý	J	AN-M	ar .	AI	PR-J	UH	J	JL-SI	ΕP	01	CT-DE	EC
				day	nit	din	day	nit	d&n	day	nit	dŧn	day	nit	den	day	nıt	dan
0 1	0	10	Feet	7	6	7	7	- 6	7	12	11	12	6	6	6	3	3	3
10 t	0	20	Feet	4	5	5	4	6	5	6	7	7	3	5	4	3	3	3
20 1	٥	38	Feet	6	10	8	8	11	9	8	12	18	5	10	7	<u> </u>	6	5
38 t	۰	49	Feet	10	13	11	13	14	14	10	15	13	8	11	9	7	10	8
48 t	. 3	50	Feet	12	16	14	15	19	17	11	15	13	10	16	13	11	14	12
50_t	۰	60	Fee:	12	15	14	16	17	17	18	14	12	10	15	12	_13	16	14
60 5	0	70	Feet	11	11	11	11	18	11	7	7	7	16	12	11	15	16	15
78 t	0	88	Feet	8	7	8	7	6	- 6	5	5	5	7	6	7	13	13	13
88 t	0	96	Feet	5	4	5	4	3	3	3	2	3	_ 5	4	4	_ 9	8	. 9
90 1	0	100	Feet	4	2	3	2	1	2	2	1	2	4	2	3	6	<u> </u>	- 6
abou	· e	100	Feet	22	18	16	13	7	10	24	10	17	34	15	24	15	7	11
Hean	he	1 ghi	Feet	75	58	67	63	52	57	74	53	63	93	€4	79	72	62	67

PARAMETER	YE	ARL'	Y	[Ji	รห-หล	RR	. AF	R-JI	เห	Jt	ルーラビ	EP	00	CT-DI	EC
	dav	nit	d&n	day	nit	din	day	nit	dŧn	day	nit	dan	day	nit	din
% occur EL&SB dcts			0			8			0			1			1
≈ occur 2+ EL dcts			0			છ			8			0			8
AVG station N			352			328			368	l		375			337
AVG station -N/Kft			15	ļ		12	1		16			17	Ī		13
AVG sec wind Kis	16	15	15	17	16	17	12	11	12	13	12	12	22	20	21

TREPS REV 2.1 MISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 23 24 N 116 40 E (*) INDICATES INSUFFICIENT DATA Fadiosonde source: 59316 23 24 N 116 40 E

Radiosonde station height: 39 Feet Surface obs source: MS97 25 00 N 115 00 E

PERCENT ACCURRENCE OF EMBANCER CHREACE_TO_CHREACT RORDS (FOR CAM REMOTE).

PERLEN! U	LLUPPENLE L	<u> </u>	HMMH	LED :	SUFFE	TLE-	0-3	JKLMI	LER	HUME	E20	LUN	KUM	<u>. 53.</u>		
FREQ	UENCY	Y	ERRL'	r	Ji	111-M	1R	Al	PR-J	JH	J	uL-á	EP	01	CT-BI	ĒČ
L		day	nit	d&n	day	nit	dån	day	nit	dŧn	day	n !	den	day	nit	din
100	HHz	3	3	3	- 8	- 8	- 8	5	6	5	7	5	6	2	Z	2
1 1 (GHz	32	22	27	14	9	11	39	30	35	52	33	43	22	15	15
3_0	GHz	42	32	37	29	14	17	48	39	44	€4	44	54	38	29	33
6 6	GHZ	69	61	65	54	46	50	66	59	63	82	59	75	75	69	72
19 (GHZ	87	84	85	81	78	80	82	99	81	92	جج	90	91	99	90
28 (GH2	92	91	91	89	88	89	87	88	88	95	94	94	95	95	57

SURFACE BASED DUCT SUMMAPY:

PARAHETEP	Y	ARL'	′	J	Ati-HI	₹R	AF	R-J	JИ	31	JL-\$8	P	00	T-DE	ι
	day	ทาเ	d&n	day	nit	den	day	nit	din	da-	nı*	d:n	day	r: 1 t	dîn
Percent occurrence	24	24	24	3	6	- 5	32	37	35	49	39	44	12	14	13
AVG thickness Kft			.28	l		.28	Ì		. 28	ĺ		. 16			.41
AVG trap freq GHz			1.3			3.0			.€3			.76			.61
HVG 1 or grd -N/Kft			155			168	i		118			166			168

CLEUCTED BUCK CUMMORY.

ELEANIED DOCT SOURCE															
PARAMETER	Y	EAPL'	Y	J 1	AH-M	RR	A	PR-J	J:i	3	UL-S	EP	01	CT-D	EC
<u> </u>	Hav	nit	dan	day	nit	dan	dav	nit	dan	da	nit	dan	day	nit	d≎n
Percent occurrence	3	3	3	3	4	4	2	2		5	1	2	4	4	4
AVG top ht Kft			5.6			7.2	i		4.2	l		5.1	l		5.9
A''G thickness Kft	L		. 42	l		.33			.63	į		.43			.31
AVG trap freq GHz			.94			1.8			. 45			. 69			.87
AVG lyr grd •N/Kft			60			59	ł		€5			66	j		56
AVG 1,r base ift			5.3	[6.9			3.9	ĺ		4.8			5.€

E-APORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PEPCENT OCCUP	RENCE Y	EAPL	Ý	J	ค้ห-หต	AR.	AI	R-JI	UPF	Į,	UL-51	EP	01	T-DE	τ —
	day	การ	d&n	day	1:11	den	day	nit	dan	dav	nit	din	035	nit	d : ••
0 to 10 F	eet 7	- 6	7	7	6	7	12	11	11	ε	- 6	6	3	3	s
10 to 20 F	eet 4	5	5	4	6	5	6	7	7	3	÷	4	3	3	3
20 to 30 F	eet 6	10	8	8	11	9	8	12	10	5	10	7	- 4	6	_ 5
38 to 48 F	eet 10	13	11	13	14	14	18	15	13	8	11	- 9	?	10	- 3
40 to 50 F	eet 12	16	14	15	19	17	11	15	13	16	16	13	11	14	12
50 to 60 F	eet 12	15	14	16	17	17	10	14	12	:0	15	12	13	16	14
68 to 78 F	eet 11	11	11	11	10	11	7	7	7	16	12	: 1	15	16	15
70 to 80 F	eet 8	7	8	7	6	6	5	5	5	?	6	7	13	13	13
80 to 90 F	eer 5	4	5	4	3	3	3	_2	3	_ 5	4	4	وب	. 8	- 9
90 to 100 F	eet 4	2	3	2	1	2	2	1	2	4		3	6	-5	- 6
above 100 F	eet 22	10	16	13	7	18	24	10	17	34	15	24	15	7	11
Hean height	Feet 75	58	67	63	_ 52	57	74	53	63	93	64	79	72	62	٠,

JENEPAL METEOPOLOGY SUMMARY:

PARAMETER	YE	APL	Υ	Ji	าน-พ	RP	AF	R-J	N54	Ji	JL-\$8	ΕP	G.	T-Di	ΕC
	day	nit	din	day	nit	din	day	nit	dŁn	day	011	d£n	day	617	din
% occur EL&SB dcts			0			0			0			9			Ö
": occur 2+ EL dcts			0	İ		0			0			0			9
AVG station H			361			334			373			386	!		351
AVG station -N/Kft			16			12	ĺ		17			19			15
RYG sfc wind Kis	15	15	15	17	16	17	12	11	12	13	12	12	22	20	21

IREPS REV 2.1

Specified location:

21 52 H

(*) INDICATES INSUFFICIENT DATA

Radiosonde source : 59663

111 58 E

21 52 N 111 58 E

Radiosonde station height: 72 Feet

Surface obs source: MS97 25 00 N 115 00 E

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SUPERCE RADAPZESM COM PANCES

FREQUENCY	Y	EARL'	Y	Ji	ลห-ท	AR .	Al	PR-JI	אט	3	JL-SI	EP -	0	CT-D	EC
	day	nit	d&r	day	ni t	d&n	day	nít	d&n	day	nit	d&n	day	การ	d&n
100 MHz	2	9	1	1	- 0	9	2	- 0	1	3	9	1	¥	*	ŧ
1 GHz	29	11	20	15	7	11	31	10	21	41	15	28	*	*	+
3 GHz	37	15	26	21	11	16	39	14	26	51	21	36	*	*	+
6 GHz	63	46	54	54	44	49	60	39	50	74	53	64	*	*	*
10 GHz	83	76	79	82	77	79	78	78	74	88	80	84	*	*	¥
28 GHz	89	86	88	89	88	89	85	82	83	93	99	91	*	*	*

SUPERCE RASER BUCT SUMMARY.

PARAMETER	YI	EARL	·	J	AM-W	R.R	RI	R-J	JH	7.	"-SI	EP	0(CT-DI	E.
	day	nit	dŁn	day	nıt	d&n	day	nit	den	day	nit	d\$n	day	nit	đần
Percent occurrence	11	Ð	6	4	0	2	19	0	10	22	9	11	0	0	0
AVG thickness Kft			.20	ĺ		.28	i		.18			.12	•		*
AVG trap freq GHz			.94	ł		.65			1.1			1.1			*
AVG lyn grd -N/Kft			224			224	i		222			226			•

ELEVATED DUCT SUMMARY:

PARAMETER	Y	ERPL'	Y	Ĵ	H-HR	AR	Af	R-JI	JH	J	JL-SI	P	01	CT-DI	EC
_	day	nıt	d&n	day	nit	dån	dav	nıt	dan	day	nit	d&n	day	nit	d&n
Percent occurrence	3	2	2	5	7	6	2	0	1	Ī	0	1	4	0	2
AVG top ht Kft			7.4	[6.9	i		5.4			7.9	Į .		9.4
AVG thickness Kft			.33	L	_	.36			. 34			.25	1		.39
AVG trap freq GHz			.91			.89			1.1			1.1			.59
AVG lyr grd -N/Kft			56	l		59			55			52	1		58
AVG lyr base Kft	l		7.1	i		6.6	ŀ		5.1			7.6	i .		9.1

EVAPORATION BUCK HISTOGRAM IN REPORT OCCURRENCE.

PERCENT OCCURR	ENCE	'EARL'	ľ	Ji	in-Hi	R	R!	R-Ji	JH	JI	JL-SE	P	00	T-DE	C
	day	nit	den	day	nit	dan	day	nit	dan	day	nit	dŁn	day	nit	den
8 to 18 Fe	et	· 6	7	7	6	7	12	11	11	6	- 6	5	3	3	3
10 to 20 Fe	et [-	5	5	4	- 6	5	6	7	7	3	5	4	3	3	3
20 to 30 Fe	et é	10	_ 8	8	11	9	8	12	19	5	10	7	4	6	5
30 to 40 Fe	et 16	13	11	13	14	14	10	15	13	8	11	9	7	10	8
40 to 50 Fe	et 12	16	14	15	19	17	11	15	13	19	16	13	11	14	12
50 to 60 Fe	et 1:	15	14	16	17	17	10	14	12	18	15	12	13	16	14
60 to 70 Fe	et 13	11	11	11	10	11	7	7	7	18	12	11	15	16	15
70 to 80 Fe	et 8	7	8	7	6	6	5	5	5	7	6	7	13	13	13
20 to 90 Fe	et s	4	5	_ 4	3	3	3	2	3	5	4	4	9	9	٩
90 to 100 Fe	e: .	2	3	2	1	2	2	1	2	4	2	3	6	5	5
above 100 Fe-	et 21	10	16	13	7	10	24	18	17	34	15	24	15	7	11
Hean caright F.	ee: 75	58	67	63	52	57	74	53	63	93	64	79	72	62	67

PARAMETER	YEARLY	JAN-MAR	APR-JUH	JUL-SEP	OCT-DEC
	day nit dên	day nit dên	day nit dan	day nit den	day nit dan
% occur EL&SB dcts	0	8	0	8	0
% occur 2+ EL dcts	θ	6	9	6	o l
AVG station N	363	335	381	388	347
AVG station -N/Kft	16	12	17	21	12
AVG sfc uind Kis	16 15 15	17 16 17	12 11 12	13 12 12	22 20 21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 20 15 N 85 49 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 42971 20 15 N 85 49 E

Radiosonde station height: 148 Feet Surface obs source: MS64 15 00 N 85 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR-ESM COM RANGES:

- Encell Occountries															
FREQUENCY	Y	EARL'	Y	31	AN-KI	AR .	i ar	R-JI	JH	Jŧ	JL-SI	EP	00	CT-DE	EC
	day	nit	den	day	nıt	<u>d&n</u>	day	nit	d&n	day	nit	d&n	day	nit	df n
100 HHz	4	3	3	7	3	- 5	3	3	3	3	3	3	3	3	3
1 GHz	44	29	32	59	21	49	40	18	29	29	16	22	49	26	39
3 GHz	54	29	41	68	29	49	50	26	38	37	22	29	61	_38	50
6 CHz	79	64	71	84	- 59	72	78	64	71	70	61	65	83	71	77
10 GHz	91	88	89	92	85	89	91	87	89	89	88	88	93	90	9∠
1 20 GHz	95	94	95	96	93	94	95	94	95	94	95	94	97	96	95

SUPFACE RASED DUCT SUHKARY:

SUPPRICE BROKE DUCT	301111	/1r •	_												
PARAMETER	Ý	EARL'	Y	J	AH-HI	AR	A.	PR-J	JH	31	UL-SI	EP	- 00	CT-DE	ĒC
!	day	nit	d&n	day	nit	<u>d&n</u>	day	nit	d&n	day	nit	d&n	dav	nıt	dan
Percent occurrence	17	12	14	31	14	23	8	7	- 8	-6		6	23	20	22
AVG thickness Kft	ı		. 67			. 52	ĺ		.79	l		1.0	!		.37
AVG trap freq SHz			.38	ļ		. 35			. 15	İ		.11	1		.90
AVG lyn gnd -N/Kft	ĺ		192	L		191			203			161	i		214

ELEVATED DUCT SUMMARY:

PARAHETER	YI	EAPL	Y	J	Ati-M	R	AI	R-J	ЙŲ	JI	JL-SI	EF	90	T-D	ĒČ
_	day	nit	d&n	day	nit	den	day	nıt	dan	da	411	dsr	day	n11	den
Percent occurrence	23	21	22	33	23	28	26	30	28	16	11	11	21	21	21
AVG top ht Kft	l		6.8	l		3.9			6.2			12	Į.		5.6
AVG thickness Kft		_	. 60			.40			.88	Ĺ		.52	L		.60
AVG trap freq GHz			.28			.51			.12			.29			.20
AVG lyr grd -N/Kft	i		63	l		57			58			65	!		۶,
AVG lyr base Kft	L _		6.4	L		3.6			5.6			11			5.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPPENCE:

PERCENT	OCCURRENCE	YI	ERRL	Υ	- 31	AN-M	ar.	RI	R-J	JH	31	JL-SE	Р	00	CT-DI	EC
1		day	nit	dån	day	การ	d&n	day	nit	den	day	nit	den	day	nit	dtn
8 to	10 Feet	3	3	3	3	2	3	4	3	3	3	3	3	3	3	3
16 10	20 Feet	2	4	3	3	6	4	į 2	4	3	3	3	3	1	3	2
20 to	30 Feet	5	8	6	5	10	7	5	8	6	- 5		_ 7	4	7	5
30 to	40 Feet	ε	10	8	5	13	9	5	9	7	8	11	Ģ	5	9	7
40 to	50 Feet	9	16	12	6	17	11	9	16	12	13	18	15	7	14	11
50 to	68 Feet	10	16	13	9	16	12	10	16	13	14	17	15	8	14	11
60 to	70 Feet	10	14	12	7	11	9	11	17	14	14	16	15	9	14	11
79 to	80 Feet	8	9	8	7	8	7	9	9	9	ક	8	8	8	10	9
80 to	90 Feet	_ 6_	<u> 5</u>	5	5	4	4	6	5	6	5	4	5	7	- 6	ь
90 to	188 Feet	4	3	4	4	3	3	5	3	4	3	2	3	4	4	4
above	100 Feet	37	13	25	47	12	29	35	12	24	25	10	17	42	17	JÜ
Mean he	right Feet	99	65	82	112	62	27	96	65	80	81	62	72	196	72	_ <u>- 29</u>

PARAMETER	YEARLY		Jí	AN-MAR	٦	AP	R-JL	JH .	J!	L-SI	Ρ	Q.	CT-DI	EC
	day nit	din	day	nit d&	<u>. !</u>	day	nit	d&n	da,	nit	dtn	dau	กเร	din
% occur EL&SB dcts		1			3			2			Ú			1
% occur 2+ EL dcts		2			3			4			2	l		0
RYG station H		372		35	з¦			388			390			358
AVG station -H/Kft		21		2	1			25			21	i		19
AVG sfc uind Kts	12 11	11	8.1	8.0 8.	8	12	12	12	15	13	14	11	11	11_

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 24 54 N 67'07 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 41780 24 54 N 57 87 E

Radiosonde station height: 75 Feet Surface obs source: MS102 25 00 N 65 00 E

PERCENT OCCUPPENCE OF ENHANCED SURFACE-TO-SURFACE RADAK ESH COM RANGES:

FREQUENCY	Y	EARL'	'	J	RN-MI	AR	AI	PR-J	JH	J	JL-Si	EP	0	T-DE	EC
	day	nit	d£n	day	nit	d&n	day	nıt	d&n	day	nit	d&n	day	nit	dtn
100 MHz	1	2	1	-2	1	2	*	#	*	0	2	1	0	2	1
1 GHz	38	17	28	48	18	33	*	*	*	21	12	16	46	20	33
3 GHz	49	25	37	58	27	43	*	*	÷	31	17	24	56	32	44
6 GHz	75	56	66	81	57	69	*	*	*	62	48	55	81	64	73
10 GHz	88	81	85	92	88	86	*	*	*	81	88	81	91	84	88
20 GHz	93	89	91	95	88	92	. *	. *	*	_88	88	88	95	92	94

SURFACE BASED DUCT SUMMAPY:

PARAMETER	Y	EARL'	ľ	J	AN-N	RR	AF	R-Ji	JN	J	JL-SI	ΕP	00	CT-DI	EC
	day	nit	d&n	day	nit	d&n	day	nit	den	day	n11	d&n	day	nit	dan
Percent occurrence	6	13	10	25	14	20	0	0	0	6	13	7	8	25	13
AYG thickness Kft			.38	ŀ		.37			*			.58			.17
RVG trap freq GHz			1.7			1.8			#			.56			2.8
AVG lyr grd -N/Kft			417	L		391			÷			164			696

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	Ji	RN-MI	RR	AI	R-JI	เห	JU	JL-SI	ĔΡ	0	CT-D!	EC
	day	nit	d&n	day	nit	d£n	day	nit	d&n	day	nit	d&n	day	nıt	d&n
Percent occurrence	0	2	1	8	7	4	0	8	Ø	8	9		0	6	6
AYG top ht Kft	ŀ		*	1		*	l		*	ļ		*			*
AVG thickness Kft			1.4	j		1.4	l		*	;		*	1		*
AVG trap freq GHz		-	.08			.08			*			¥			¥
AVG lyn and -N/kft			*	1		*	İ		*	i		*	i		*
AVG lyr base Kft			6.6			6.6	l		•	l		¥	1		¥

EVAPOPATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	SCC	URRENCE	Yi	GPL V	Y		AN-M	AR	Ai	PR-JI	JH.	31	UL-SI	ΞP	. 0	ות-ד:	EC
			day	nit	den	day	nit	d&n	day	nil	dan	day	nit	den	day	nit	dŧn
8 to	10	Feet	5	5	5	3	2	3	5	5	5	8	9	ક	2	1	2
18 to	20	Feet	3	8	5	3	11	7	2	7	4	4	6	5	2	8	5
20 to	30	Feet	4	9	7	4	_ 9	6	3	18	7	7	9	8	4	10	7
30 to	40	Feet	6	13	9	5	10	8	5	13	9	9	17	13	4	10	— 7
48 to	50	Feet	8	16	12	8	15	11	6	16	11	11	19	15	6	13	3
50 to	60	Feet	10	15	12	11	13	12	9	14	11	11	16	14	8	15	11
68 to	70	Feet	16	11	11	9	11	10	10	11	11	13	12	12	9	12	10
79 to	80	Feet	7	8	7	6	9	8	8	7	7	?	6	6	8	9	9
80 10	90	Feet	6	4	5	5	4	5	7	3	5	7	2	4	5	5	5
90 to	169	Feet	4	2	3	4	3	3	5	2	3	3	1	2	5	3	4
abov∈	100	Feet	37	10	24	42	13	28	40	11	26	21	3	12	46	13	30
Hean he	ıgh	t Feet	100	58	79	186	62	84	185	58	81	77	47	62	112	64	88

PARAMETER	YEARLY	JAN-HAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit den	day nit dan	day nit din	day nit d&n	day nit dan
% occur EL&SB dcts	9	8	8	0	8
% occur 2+ EL dcts	0	8	8	8	0
AVG station N	372	347	377	383	380
AVG station -H/Kft	18	13	21	22	14
AVG sfc wind Kis	12 11 11	9.2 8.9 9.1	13 13 13	16 15 15	8.6 7.6 8.1

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMAPY

Specified location: 26 18 N 50 36 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 40427 26 18 N 50 36 E

Radiosonde station height: 7 Feet

Surface obs source: MS103 25 00 N 55 00 E

PERCENT OCCURRENCE OF ENHANCED SUPFACE-TO-SUPFACE RADAR/ESH/COM RANGES:

Γ	FREQUENCY	Y	EARL'	Y	J	H-NE	AR .	RI	R-JI	JH	Ji	JL-SI	P	00	CT-DE	EC.
ĺ		day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	dŁn	day	nit	dtn
Γ	100 MHz	17	21	19	5	6	6	18	22	20	38	43	40	8	12	10
	1 GHz	69	63	66	49	34	41	82	81	81	89	92	90	35	47	52
1	3 GHz	76	78	73	58	43	50	88	89	89	91	92	92	66	57	61
Г	6 Ghz	87	82	84	77	64	71	93	93	93	94	95	94	83	74	79
1	10 GHz	93	98	92	89	82	85	95	96	96	97	97	97	92	87	89
1	20 GHz	96	95	95	93	98	91	96	98	97	97	98	98	96	93	45

SUPERCE RASED DUCT SUMMARY:

JOKENCE BUSED DOCT 2	JUINTIN I .				
PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	UCT-DEC
	day nit d&n	day nit d&n	day nit dan	day nit dan	day nit dan
Percent occurrence	52 64 58	27 36 32	69 85 77	80 90 85	32 46 39
AVG thickness Kft	.57	.42	'.50	.77	.59
RVG trap freg GHz	.27	.46	.24	.11	.25
AVG lun gnd -N/Kft	117	124	116	116	114

ELEVATED DUCT SUMMARY:

PARAHETER	Y	ERRL'	Υ	J	AH-H	R R	Ri	PR-JI	UN	J	JL-SI	ĒΡ	00	T-DI	C
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	7:1	dt n
Percent occurrence	17	21	19	16	26	21	12	11	12	15	15	15	25	33	29
AVG top ht Kft	ŀ		1.8			2.0	ŀ		1.1			1.9	l		2.1
AVG thickness Kft	L _		. 63	l		.46	l _	_	.60			.78			.67
AVG trap freq GHz			.23			.36			.23			.13			.20
AVG lyr grd -N/Kft			65			60	ļ		64			72			63
AVG lyr base Kft			1.4	<u> </u>		1.7	i		.76			1.4			1.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCURRENCE	Y	ARL'	1	J	AN-M	RR	91	PR-J	ŪÑ	3	UL-SI	EP	01	T-DE	:C
		day	nit	d&n	day	nit	d&n	day	nıt	d&n	day	nit	d&n	day	nit	dan
8 to	10 Feet	7	6	6	5	- 4	5	9	7	8	9	9	9	3	2	3
10 to	20 Feet	3	10	7	4	11	8	2	7	5	3	11	7	3	10	7
20 to	30 Feet	5	11	8	5	12	9	3	_10	7	4	11	- 8	_6	12	9
30 10	48 Feet	6	11	8	7	13	18	4	10	7	5	12	8	6	13	8
49 10	50 F∈et	7	12	10	9	13	11	5	18	8	?	12	10	7	12	10
50 to	60 Feet	8	11	9	9	12	11	6	9	7	7	10	9	8	12	10
50 10	70 Feet	7	. 9	8	8	10	- 9	4	6	5	6	3	7	10	12	11
78 to	80 Feet	5	6	5	6	6	6	3	4	4	4	5	4	7	8	?
80 to	90 Feet	4	_3	4	5	_ 3	4	3	3	3	4	3	4	5	5	_ 5
98 to	190 Feet	3	2	3	3	2	3	3	2	2	3	2	- 3	4	3	3
above	100 Feet	45	19	32	37	12	25	57	30	44	47	18	32	41	14	27
Hean he	ight Feet	109	67	88	97	58	_77	125	_83	194	108	65	86	104	63	£ 3

PARAMETER	YEARLY	JAH-MAR	APR-JUN	JUL-SEP	O(T-DEL
	day nit dan	day nit dan	day nit dên	day nit din	day nit den
% occur EL&SB dcts	5	3	4	7	5
% occur 2+ EL dcts	1	2	1	1	1
AVG station H	356	336	354	376	359
AVG station -N/Kft	26	19	27	34	24
AVG sfc wind its	9 0 8.7 8.9	18 9.3 9.4	9.4 9.3 9.3	9.2 8.9 7.1	8.0 7.3 7.7

HISTOPICAL PROPAGATION CONDITIONS SUMMAPY

Specified location: 20 40 N 58 54 E (*) IMDICATES INSUFFICIENT DATA Radiosonde source: 40564 20 40 N 58 54 E Radiosonde station height: 39 Feet Surface obs source: MS103 25 00 N 55 00 S

PERCENT OCCURPENCE OF ENHANCED SURFACE-TO-SURFACE PADAR ESH COP PAMGES:

	FREQUENCY	Y	EHRL'	Y	Ji	H-HE	RR	AI	PR-J	UH	JI	JL-S	EP	0	CT-DE	EC
		day	nıt	dan	diy	nıt	dan	day	nit	ರಹಿಗ	day	nıt	ರಕ್ಷ	day	nit	den
	100 HHz	7	10	9	5	- 6	5	12	22	17	5	5	5	6	8	7
1	1 GHZ	57	44	51	48	29	39	72	74	73	56	35	45	53	39	46
1	3 GH2	65	52	58	56	26	46	76	79	78	54	43	54	63	49	56
	6 GH≥	80	69	74	76	58	67	85	86	85	7.5	61	69	82	70	76
1	10 GHz	89	83	86	88	78	83	91	92	91	87	78	83	92	85	88
1	20 GHz	93	90	92	92	88	90	93	95	94	91	86	89	96	92	94

SURFACE BASED BUCT SUMMARY:

IREPS REV 2.1

PARAMETER	Y	EARL'		31	ลห-หล	ìR	RF	R-JI	H	J	JL-SE	P	- 00	T-D1	EC
	day	nı t	den	day	nıt	dtn	dan	nit	dkn	day	nii	den	day	nıt	dån
Percent cacurrence	28	40	34	21	23	22	35	68	52	26	30	28	28	38	33
AVG thickness Kft	1		.74	l		.6€			.93			.82			.56
AVG trap freq GHz	1		.31			.26	i		. 18			.47			.33
AVG lun grd -N/Kft	l		133	İ		138			133			131			129

ELEVATED DUCT SUNHARY:

PARAMETER	71	EAPLY	r	71	AN-HE	jk.	A	11-9°	NH	31	JL-SE	EΡ	00	T-D!	C
	day	การ	d\$n	day	nit	d&n	day	nit	d%n	day	nit	d&n	day	nit	d&n
Percent occurrence	41	45	43	48	56	49	36	30	33	39	53	46	40	46	43
AVG top ht Kft	1		2.6	i		3.1			2.3			2.2			3.0
AVG thickness Kft			.87	<u> </u>		.73			1.1			.89	į		. 75
AVG trap freq GHz			.13			. 16			. 08			.18			.17
RVG lyn gnd -N/Kft	i		€5	1		67	ł		66			65	i		63
AVG lyr base Ift	l		2.1	i		2.6	1		1.6			1.6	j		2.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT (OCCURPENCE	Y S	RRLY	7	J	AN-N	R.	A1	R-31	JN	Ji	JL-SI	ΕP	00	T - DE	C
		da	กาเ	dtn	day	nıt	din	day	nit	d&n	day	ភាដ	d&n	day	nit	din
0 10	10 Feet	7	6	6	5	4	5	9	7	8	9	7	9	3	2	
10 to 2	20 Feet	3	10	7	4	11	8	2	7	5	3	11	7	3	10	ř
20 10	30 Ceet	5	11	8	5	12	9	3	10	7	4	11	8	6	12	9
20 to	40 Feet	6	11	8	7	13	18	4	10	7	5	12	8	6	10	8
40 to 3	50 Feet	7	12	16	9	13	11	5	10	8	7	12	10	7	12	10
50 10 1	60 Feet	8	11	9	و	12	1:	6	9	7	7	10	G	8	12	10
50 to	O Feet	7	9.	8	8	10	ė	4	E	5	6	\$	7	10	12	ī l
78 to 1	80 Feet	5	6	5	6	6	6	3	4	4	4	5	4	7	8	7
80 10	90 Feet	→	3	4	5	3	4	3	3	3	4	3	4	5	_ 5	. 5
98 to	100 Feet	3	2	3	3	2	3	3	2	2	3	2	2	4	3	_ 3
above	100 Feet	45	19	32	37	12	25	57	39	44	47	18	32	41	14	27
Mean he	ght Feet	105	67	88	97	58	77	125	83	104	198	65	36	104	€3	83

PARF. ITEP	YERPLY	JAH-NAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit dan	day nit din	day our ste	day nit dan
: occur EL&SB dcts	5	4	5	€	5
% occur 2+ EL dcts	4	4	3	5	4
AVG station N	362	348	373	378	356
AVG station -H kft	25	20	30	27	23
AVG see wind its	4.8 9.7 8.4	10 9.3 9.4	9.4 4.3 4.3	4.2 8.4 4.1	8.9 7.3 7.

IPEPS REV 2.1 FISTGRICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 29 13 N 47 58 E (*) INDICATES INSUFFICIENT DATA Radiosonde source : 40372 29 13 N 47 58 E

Radiosonde station height: 180 Feet Surface obs source: MS103 25 00 N 55 00 E

PEEFENT OCCUPRENCE OF ENHANCED SUPFACE-TO-SUPFACE PADAD ESH COM PAUCES:

FREQUENCY	Y	ERRL'	Y	J	AN-H	AR	AI	2R-J	JH	J	JL-SI	EP .	00	T-DI	EC
	day	nit	dtn	رده!	nit	den	day	nit	dan	day	nit	den	day	nıt	dtr
100 MHz	2	2	2	1	4	3	2	1	2	1	0	9	2	3	_ :
1 GHz	49	25	37	41	27	34	61	34	47	48	18	33	46	23	3.
3 GHz	57	33	45	49	36	43	67	40	53	55	23	39	56	33	4
6 CH-	75	56	66	72	60	66	79	59	69	72	46	59	78	60	- 69
10 GHz	87	77	82	86	79	83	87	78	83	84	69	76	98	79	8
20 GHz	91	86	39	91	89	98	90	87	89	88	81	84	95	38	3

SUPFACE BASED DUCT SUMMAPY:

PARAMETER	Y	EARL'	7	3	ลห-ท <i>เ</i>	٩R	AF	PR-JI	JH	3	JL-Si	P	0	i T-Di	EC
	day	nıt	d&n	day	nıt	dån	day	nit	den	day	nit	dan	dav	การ	dan
Percent occurrence	12	14	13	18	29	20	18	10	14	4	8	2	14	18	16
AVG thickness Kft			.31	l		. 19			. 30	ŀ		.46	j		.23
AVG trap freq GPz			.83	1		.76			1.4	i		. 54	i		. 64
HMG lun gnd -N/Kft			166			121			177			227			139

PARAMETER	Y	ERRL	Y	31	AH-M	AR	- AI	PR-JI	หย	3	/L -SI	-P	00	T-D	EC
	day	210	d&n	day	nit	dan	day	011	d&n	day	rit	d&r	dav	7:1	den
Percent occurrence	6	6	6	3	4	4	6	3	5	5	0	3	8	15	- :2
AVG top ht Kft	İ		5.2	į		2.5	l		8.2			7.8	ì		2.2
AUG thickness ift	l		.48	1		. 32	l		.47			.56	ļ		. 57
AVG : rap freq Gliz			.83			1.5			1.0			.65			.21
AVG lun gnd -N/K+t	i		68	ĺ		59	i		Si			51	1		70
AVG In base Ift			4.8	I		2.2			7.9	ł		7.3	l		1.8

EMAPOPATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PERCENT	OCCUPPENCE	Y	EAPL	Y	J	คพ-หล	AK T	A:	PP-J	UN	J	UL-5!	EΡ	0	CT-DE	C
		day	nit	d&n	day	F- 1 T	dtn	day	nit	din	day	212	d* r	da ₂ .	011	dun
e to	10 Feet	7	- 6	- 6	5	4	5	à	7	8	9	9	9	3	2	3
10 to	20 Feet	3	10	7	4	11	8	2	7	5	3	11	7	3	10	7
20 10	38 Feet	5	11	8	5	12	9	3	10	. 7	1 4	11	8	6	12	9
38 tc	40 Feet	€	11	8	7	13	10	- 4	13	7	5	15	- 3	6	10	8
48 10	50 Feet	7	12	16	9	13	11	5	10	8	7	12	10	7	12	10
50 10	60 Feet	9	11	9	ہ ا	12	11	6	ģ	7	7	10	9	8	12	16
60 to	70 Feet	7	c,	8	8	10	9	4	6	5	ε	8		10	12	-
78 10	80 Feet	5	6	5	6	6	6	3	4	4	4	5	4	-	8	7
80 to	90 Feet	4	3	4.	5	3	4	3	3	3	4	3	4	5	5	5
98 to	100 Feet	3	2	3	3	2	<u>:</u>	1 3	2	2	3	- 2	ž	4	3	
above	100 Feet	45	19	32	37	12	25	. 57	30	44	47	18	32	41	14	2-
Hean he	ight Feet	109	€7	88	97	58	77	125	83	104	103	65	86	104	63	83

PAPAMETER	YEAPLY	JAN-HAP	APP-JUN	JUL-SEP	GCT-BEC
<u> </u>	dau nit din	dan nit den	day nit den	day nit dtn	day nit den
% occur EL&SB dcts	3	0	1	Û	9
% occur 2+ EL dcts	ខ	9	0	0	9
AVG station N	382	314	297	279	316
AVG station -N/Kf:	11	12	9.4	8.2	12
AUG sfc wind kis	9.0 8.7 8.9	10 9.3 9.4	9.4 9.3 9.3	9.2 8.9 9.1	8.0 7 7.

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 21 30 4 39 12 E (+) INDICATES INSUFFICIENT DATA

Radiosorde source: 48477 21 30 N 39 12 E Padiosonde station height: 56 Feet Surface obs source: MS105 25 00 N 35 00 E

PERCENT OCCURPENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	Y	EARL	Y	J	AN-MI	AR.	A	PR-J	หเ	JI	JL-SI	EP	G	CT-DE	EC
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	n13	den
100 MHz	4	7	6	1	3	2	5	9	7	5	10	8	4	6	- 5
1 GHz	56	45	58	38	26	32	69	57	63	68	61	64	47	35	4:
3 GHz	68	57	62	54	38	46	77	68	72	78	71	74	62	_5:	57
6 GH:	97	81	84	81	75	78	89	83	86	90	85	88	86	86	83
10 GHz	94	92	93	92	98	91	95	93	94	95	95	95	95	92	94
20 GHz	96	96	96	95	95	95	97	97	97	96	97	95	98	96	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	J	Ali-H	ar	AI	R-J	JN	J	JL-S!	P	0	CT-DI	EC
1	day	nit	din	day	nit	den	day	การ	dŧn	day	nit	der	day	nit	dt.
Percent occurrence	28	36	28	6	15	11	27	48	38	27	52	40	21	38	26
94G thickness Kft			.46			.39	ı		. 44			.52	l		. 47
AVG trap freq GHz	1		.38	Ì		. 48	Ì		.40	1		.38	1		.35
AVG lyn grd -N/Kft	L		123			114			115			116	<u> </u>		149

ELEVATED DUCT SUMMARY:

PARAMÉTER	Y	ESRL	Y	J	<u>คห</u> -н	AR	AF	R-J	JH -	31	JL-SI	ĒΡ	0	CT-D	EC
	day	71 Í L	dŧn	day	nit	d&n	day	nit	d&₽	dav	***	dtr	day	nit	de,
Percent occurrence	11	13	12	10	18	14	12	14	13	13	12	13	8	- 9	9
AVG top ht Kft			2.6	}		3.7	1		1.6	1		1.6)		3.7
AVG thickness Kft	Ĺ		.61	L _		.42			.63	L		.73	l		. €5
AVG trap freq GHz			.38			.53			.41			.27			.30
AVG lyr grd -N/Kft			56	i		57			55	i		54			58
AVG lur base Kft			2.1	.		3.3			1.1			.90	l		3.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PEPCENT	<u> 0C C</u> 1	URRENCE	Y	ERRLY	ľ	J	AH-M	AR	£.	PR-J	JN	1	UL-SI	EP	0	CT-DE	EC
			day	nıt	d&n	day	nıt	d&n	day	nit	đěn	day	***	der	day	nit	din
Ø to	10	Feet	3	2	3	3	3	3	3	3	ω	7	3	4		1	1
10 10	20	Feet	2	4	3	3	3	3	1	3	2	2	3	3	1	5	3
20 to	30	Feet	3	6	4	3	5	4	3	8	ಕ	1	5	3	4	6	5
30 to	40	Feet	4	8	6	5	7	6	3	- 9	6	2	8	5	5	6	- 5
40 10	50	Feet	5	10	8	7	11	9	5	9	7	4	: 1	7	6	10	8
50 to	60	Feet	6	11	9	8	14	11	5	10	7	4	9	7	8	_12	10
50 to	70	Feet	3	12	16	10	15	13	5	8	7	6	- 8	7	11	15	13
78 to	86	Feet	8	10	9	10	:3	11	6	7	6	6	8	7	10	13	12
80 to	90	Feet	7	6	5	9	7	8	3	5	4	6	4	5	9	. 9	9
90 to	16.5	Feet	6	5	5	8	5	6	4	4	4	5	4	4	7	7	7
above	100	Feet	49	26	37	35	17	26	€:	35	48	50	37	48	37	16	27
Hean he	i ghi	t Feet	.13	84	99	96	73	84	131	94	112	129	96	112	98	72	85

PARAMETEP	YEARL	Y	- 31	AN-H	AR.	AF	R-J	Uti	Ji	JL-S!	EP	0	CT-DI	ĒC
<u> </u>	day nit	d&n	day	nit	din	day	nit	dûn	day	011	dtr	Ca.	P-11	đ:
% occur EL&SB dcts		2			2			2			2			Ø
1 occur 2+ EL dets		Θ	l		1	l		9			6	ł		ð
AVG station H		355	1		348			35€			365	l		358
AVG station -N/kft		20	l		15	i		22			24	1		19
AVG sfc wind fts	13 11	12	14	12	13	13	11	12	13	10	12	13	11	12

HISTORICAL PROPAGATION CONDITIONS SURMAP. IREPS REV 2.1

Specified location: 30 22 N 9 34 H Radiosonde source: 60250 30 22 N 9 34 H (+) INDICATES INSUFFICIENT DATA

Radiosonde station height: 82 Feet

Surface obs source: MS109 35 00 N 5 00 H

PEPCENT OCCURPENCE OF ENHANCED SUPPACE-TO-SUPPACE RADAP/ESM COR RANGES:

FREQUENCY	Y	EARL	Y	J	AH-MI	RR	A	PR-JI	אט	J1	UL-5!	ΕÊ	0	CT-D	<u> </u>
	day	nıt	den	day	nıt	d&n	day	nit	den	day	911	dtn	da.	nit	dt A
100 MHz	0	1	1	*	*	*	e	1	9	9	1	1	+	+	-,-
1 GHz	28	19	23	+	*	*	26	17	21	36	21	26	+	*	•
3 GHz	32	_ 23	27	*		•	29	28	25	35	25	36	*	*	*
6 GHz	49	36	43	+	+	+	47	33	46	51	49	45	*	+	
10 CHz	71	64	67	+	*	*	72	63	67	70	65	67	•	5	*
20 GHz	81	79	88	1 +	*	*	83	89	82	79	78	79	*	÷	•

SUPFACE BASED DUCT SUMMARY:

PARAMETER	YEARL	Y	31	AH-H	R.	FI.	R-J	jN	J	JL-S!	P	00	CT-D	EC - 1
	day nit	den	day	n; t	d&n	day	nıt	den	da;	nıt	den	day	nit	dsn
Percent occurrence	8 3	2	0	0	- 8	9	6	3	3	7	4	9	0	9
AVG thickness Kft		.77	1		*	J		.67	l		.88			*
AVG trap freq GHz	ļ	. 67			+	i		.89			. ∔5			•
AVG lyn grd -N/Kft		184	<u> </u>		*			117			91			•

FLEVATED DUCT SUMMARY:

PARAHETEP	Y	EARL	Y	3:	BH-H	AR .	AI	PR-J	UN	34	JL-59	55	90	T-DI	EC
	day	ni t	địn	day	nit	ರಕ್ಕ	day	nit	d&n	day	nit	360	day	nit	dt a
Percent occurrence	0	8	4	9	3	2	0	11	6	8	10	- 5	0	9	5
AVG top ht Kft	!		2.7			2.8	1		3.6			1.7	•		2.8
AVG thickness Kft	•		. 41	ł		.23	l		. 58			. 38	į		. 47
AVG trap freq GHz			1.1			.77			.37			2.7			.51
AVG lyr grd -N/Kft	l		61	i		60	i		76			54			59
AVG lyr base Kft	i		2.4	1		2.6	l		3.2			1.4	i		2.4

EVAPORATION BUILT HISTOGRAM IN PERCENT OCCURRENCE.

PERCENT OCCUP	PRENCE	YE	ARL	r	J	H-M	R.	A	R-JI	JH	3:	JL-Si	P	64	T-D5	i t
		dav	nit	dan	day	nit	dan	day	nıı	dtr	day	1110	58€	day-	nit	den
0 to 10 F	eet	à	19	9	õ	3	7	9	-9	<u>.</u>	13	13	13	7	9	8
10 to 20 F	Feet	- 7	12	10	8	12	10	8	12	10	8	11	10	6	11	4
20 to 30 F	199	11	17	14	12	19	16	12	18	15	9	15	12	18	15	13
30 to 40 F	eet	13	18	15	14	29	17	14	18	16	10	15	13	13	17	15
40 to 50 F	eet	12	13	13	14	15	15	11	13	12	9	11	10	13	17	1.
50 to 60 F	eet	9	9	9	1;	10	16	8	7	8	8	8	٤	11	11	1 1
68 to 70 F	199	ů,	5	5	7	4	- 5	6	4	5	5	4	5	7	- 5	
70 to 80 F	eet	4	2	3	4	2	3	4	2	3	4	3	3	5	3	
80 to 90 F	eet	2	2	2	2	1	2	2	1	2	2	2	2	3	2	- 2
90 to 100 F	ee!	2	1	2	2	1	1	2	1	1	2	2	2	2	1	2
above 100 F	eer	24	12	18	19	8	13	26	14	28	30	17	24	23	11	17
Mean height	Feet	-3	52	62	65	44	55	73	53	63	79	57	€8	74	52	- 5

CENEDAL METEODO, DOV SUMMADY.

GEMERAL METEOROLOGI	SUMME 1.				
PA" METEP	YERPLY	JAN-HAP	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit dan	day nit din	day nit dår	day nit dan
% occur EL&SB dcts	0	8	1	0	0
2 occur 20 EL dets	0	8	8	1	0
AVG station H	345	334	347	358	339
AVG station -N/Fft	16	15	16	17	15
AVG sfc uind is	12 12 12	12 13 13	12 12 12	11 10 11	13 12 12

TREPS REV 2.1 #ISTORICAL PROPAGATION CONDITIONS SUMMAPY

Specified location: 33 34 N 7 40 i

Radiosonde source : 60155 33 34 N 7 40 W

Radiosonde station height: 203 Feet Surface obs source: HS109 35 00 N 5 00 H

PEPCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAP ESM COM RANGES:

FREQUENCY	Y.	EARL'	Y	J	AN-H	AR	Al	R-JI	JN	Ji	JL-S	P	00	CT-DI	C
	day	nit	d&n	day	nit	d&n	day	nit	den	day	rit	din	day	nit	den
100 MHz	3	1	2	2	2	2	3	0	1	5	9	3	2	8	1
1 GHz	32	14	23	25	15	20	33	14	23	44	17	31	28	11	19
3 GHz	38	17	28	31	. 19	25	38	16	_27	51	21	36	34	14	24
6 GHz	56	33	45	51	34	43	54	30	42	64	35	50	55	34	44
18 GHz	77	63	79	76	66	71	76	61	68	78	62	70	79	65	72
20 GHz	87	89	83	87	83	85	86	79	82	85	76	81	89	89	84

(*) INDICATES INSUFFICIENT DATA

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SURFACE BASED DUCT SUMMARY:

PRRAMETER	Y	EARL'	Y	J	AH-MI	R.	AI	PR-JI	JN	31	JL-SE	Р	Ö	CT-D	C
	day	mt	din	day	nit	d&n	day	nit	dån	day	nit	der	day	nit	Cir
Percent occurrence	16	3	10	12	13	13	15	0	S	27	9	14	10	- 0	- 5
AVG thickness Kft			.39	ì		.34	ĺ		.39	1		. 54	1		.38
AVG trap freq GH2			.51	i		.58			. 54			.38			.56
AVG lyr grd -H/Kft			103			104			87		_	110	i _	_	110

ELEVATED DUCT SUMMARY:

PARAMETER	YI	ENST.	Y	J	AH-H	AR	91	R-JI	JH	J	JL-SE	P	ō	CT-DE	:C
	day	215	dŁn	day	nit	din	day	nit	den	day	nit	d&n	da_	nit	den
Percent occurrence	23	3	13	10	13	12	25	- 0	13	42	9	21	14	0	7
AVG top ht Kft	ļ		2.6	l		2.9	l		2.7	I		2.1	l		2.7
AVG thickness Kft	1		.58	ì		.31		_	.54	l .		.77			.40
AVG trap freq SHz			. 52	$\overline{}$		1.1			.26			.17			.59
AVG lvr grd -N/Kft	İ		58	l		56			60	i		68			57
AVG lyr base Kft	İ		2.2	L _		2.7			2.3			1.6			2.4

EVAPOPATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURR	ENCE	YE	ARLY		Ĵſ	314-WE	iR	fil	R-JU	ИL	31	jL-Si	P	õ	T-DE	:C
	c	ay	nit	džr	day	nit	din	day	nit	der	day	rit	d£ n	da	การ	dir
e to 18 Fe	21	9	10	9	6	8	7	9	9	9	13	13	13	7	9	8
10 to 20 Fe-	et	7	12	10	8	12	10	8	12	10	8	11	10	6	11	8
20 to 30 Fee	Pt	11	17	14	12	19	16	2	18	15	9	15	12	10	15	13
38 to 48 Fe	e:	13	18	15	14	20	17	14	18	16	10	15	13	13	17	15
40 to 50 Fe	er	12	13	13	14	15	15	11	13	12	9	11	16	13	14	14
50 to 60 Fe	et	9	9	9	11	10	19	3	7	9	8	8_	ક	11	_ i 1	11
60 to 79 Fe		6	5	5	7	4	ε	6	4	5	5	4	5	7	6	- 6
78 to 80 Feb	et j	4	2	3	4	2	3	4	2	3	4	3	3	5	3	4
86 to 90 Fee	et	2	2	2	2	1	_ 2	2	1	2	2	2	2	3	2	_ 2
90 to 100 Fe	et	2	1	2	- 3	- <u>-</u>	1	2	1	1	2	2	2	2	ī	2
above 100 Fe-	et	24	12	18	19	8	13	26	14	20	38	17	24	23	11	1.7
Hean height F	153	73	52	62	65	44	55	73	53	63	-9	57	68	74	52	63

PAPANETEP	YE	ARL	7	31	3N-3 <u>1</u> 1	AR .	Al	PR-JI	UN	J	UL-SI	P	0	CT-DI	EC
	dav	mis	den	Ca:	PIL	din	day	011	đin	das	nit	dir	63.	211	dår
% occur EL&SB dcts			1	1		9			2			3			0
% occur 2+ EL dcts			2	l		1			2			3			ម
AVG station N			339	l		329	ĺ		338			353			335
AVG station -N/Kft			18	1		15			16			23	ļ		16
AVG sfc wind ris	12	12	12	13	13	13	12	12	12	11	16	11	13	12	12

IREPS REV 2.1 HISTOPICAL PROPAGATION CONDITIONS SUMMAR-

Specified location: 34 18 N 6 36 W (*) INDICATES INSUFFICIENT DATH Radiosonde source: 50119 34 18 N 6 36 W

Radiosonde station height: 28 Feet

Surface obs source: MS189 35 88 N 5 88 H

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESMICON RANGES:

FREQUENCY	71	ARL	<i>r</i> —	J1	H-HI	RR	ਜੀ	PR-JI	JH 🔠	- 31	JL-51	EP -	O	T-D	EC.
	day	nit	dŁn.	day	nit	dun	day	nit	dån	day	2112	den	day	nit	dtn
100 MHz	1	3	2	Ø	1	8	0	3	2	8	7	4	6	2	4
1 GHz	j 29	22	25	19	11	15	26	24	25	30	37	33	40	16	- 3
3_GHz	34	26	_30	23	14	18	29	_28	_29	35	42	38	48	20	34
6 GHz	52	40	46	45	30	37	47	40	44	51	53	52	66	39	52
10 GHz	75	68	71	73	63	€8	72	67	69	70	72	71	84	€8	76
20 GHz	85	82	83	86	81	_84	83	82	83	79	83	8:	92	82	S

SURFACE BASED DUCT SUMMARY:

PARAMETER	YI	RRL'	7	3	RH-HI	AR	R	R-31	111	J	اد-5	ρ	0:	1-1	E
	day	nit	ರಕ್ಷಣ	day	nit	d&n	day	การ	dtr.	GAV	n):	den	dav	nit	QS.
Percent occurrence	s	15	11	0	7	4	9	15	8	0	27	14	33	9	21
AVG thickness Kft			.50	1		.43	1		.44	ł		.68	İ		.44
AVG trap freq GHz			.58			1.2	l		.31			.23	l		. 5 :
AVG lyr and -N Yft			118	Ĺ		147	[113			114			ۆن

ELEVATED DUCT SUMMARY:

PARAMETEP	YEARLY day nit dan d			J	AH-HI	RR	A	PR-JI	אנ	jį	JL-\$	F	Č.	T-91	E -
	day	nıt	d&n	day	nıt	dan	day	111	n3b	day	nit	dian	da	A' 1	dûn
Percent occurrence	e	39	29	0	28	14	0	45	23	0	50	25	Ü	32	. 5
AVG top ht Kft			2.6	ĺ		3.0	,		2.4			1.7	1		3.3
AVG thickness Kft			.47	<u></u>		.43	L		, 43		_	.64	i		.37
AVG trap freq GHz			. 49			.46			. 44			. 15			.53
AVG lyr grd -N/Kft			68	i		71	İ		68			71	l		69
AVG lyr base Kft	L		2.3			2.3	Ĺ		2.1		_	1.3	İ		3.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT	OCCURRENCE	Y	EARL'	7	J	คห-หเ	RR	AI	P-31	JN	J	:L-5	Ρ	Ü	T-DE	()
L		229	710	d&n	day	rit	Can	day	nit	uin.	dau		ರ ಶಿಣ	Say	211	6.0
9 to	10 Feet	9	10	9	6	8	7	9	9	ç	13	13	13	7	9	0
10 to	29 Feet	7	12	10	8	12	16	8	12	10	8	3.1	10	é	11	ರ
20 10	38 Feet	_11	17	14	12	19	16	12	_18	15	9	15	12	10	15	_ : _
30 to	40 Feet	13	18	15	14	26	17	14	18	15	18	15	3 4	13	1	1 4
48 10	SC Feet	12	13	13	14	15	15	11	13	10	Ģ	1 1	: 8	13	14	14
58 to	69 Feet	٥	_ 9	9	11	18	19	8	7	8	Û	_ \$	ક	_11	_1:	11
60 20	70 Feet	6	- 5	- 5	7	4	€	6	4	5	ŕ	*	5	7	5	ē
70 to	80 Feet	4	2	3	4	2	3	4	2	3	+	3	-	5	3	4
88 to	90 Feet	2	_ 2	2	_ 2	1.	_ 2	2	1	_ 2	_ 2	2	1	3	Z	_
98 to	100 Feet	Ž	1	2	2	1	1	2	1	1	2	ž	ĩ			
abo∵e	100 Fee:	54	12	18	19	8	13	25	14	26	38	17	24	4.	11	: -
Mean he	ight Feet	73	52	62	65	44	55	73	53	63	79	57	éê,	4	22	-

PARAMETER	YEARLY	۲ ا	JAN-Mí	1R	AF	`P-3U	H		.L-:E	F	-	15 E	
	day nit	đản	day nit	din	day	nit	der	da.	7 - 4	dt.	₫a.	F 1 %	ر مين
% occur ELESB dets	1	3		- 2	}		2			5			₁
% occur 2+ EL dets	İ	5		5			5	i		5			- 4
AVG station #	1	344		333	1		344			361			3 .
AVG station -H/kft	ſ	17		15	1		17			21			. 5
A'G sec wind fits	12 12	12.	13	13	12	12	12	-1	10	11	13	12	12

Specified location: 38 46 N 9 87 W (*) INDICATES INSUFFICIENT DATA Radiosonde source: 8536 38 46 N 9 87 W

Radiosonde station height: 266 Feet

surface obs source: MS109 35 00 N 5 00 N

PERCENT OCCUPPENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESK COM RANGES

PERCENT OCCUPRENCE (er E	HUMM	LED '	SUFFI	71.5-	• 0-50	JEFRI	- C R	אאינני	E 20	CON	K MI4	<u>, 53.</u>		
FREQUENCY	Y	EARL	Y	31	AN-M	AR	Al	PR-JU	.H	3	JL-Si	P	0	CT-DI	EC
	day	nit	den	day	nit	dŁn	day	nit	d&n	day	nit	đin	Gav	nit	dtn
100 MH=	2	1	1	Θ	9	Ø	2	1	1	4	2	3	1	1	1
1 GHz	38	15	23	21	9	15	32	16	24	41	22	32	27	13	26
3 GH≥	36	19	28	25	12	19	38	19	29	48	27	38	34	17	25
6 GHz	55	35	45	47	28	37	55	32	43	63	41	52	55	37	46
10 GH7	77	64	71	74	62	68	76	62	69	78	66	72	79	67	73
20 GHz	86	80	83	86	81	84	86	88	83	85	79	83	89	21	35_

SUPFACE BASED DUCT SUNHARY:

PARAHETER	Y	EARL'	1	J	คห-หค	BR	A	P-J:	หย	31	JL-SI	P	Ct	T-DE	EC
	day	nit	din	day	nit	din	day	nit	_d&n	day	n11	din	day	rit	g: n
Percent occurrence	15	6	18	4	4	4	18	4	11	26	10	18	10	6	- 8
AVG thickness Kft			.30]		.23	l		. 25			.37	1		. 34
AMG thap freq SH2			.92	1		1.1	1		1.0	l		.60			1.0
AVG lyr grd -N/Kft			197	i		143	1		94			98	ŀ		100

ELEVATED DUCT SUMMARY:

PARAMETER		HRL	-		H-H			1L-90			IL-SI			T-DE	
	day	n:t	32r.	day	***	địn	day	nit	dan	dav	PIT	din	day	7117	dtn
Fercent occurrence	13	19	16	13	14	14	12	29	16	15	27	21	11	14	13
AVG top ht kft	1		3.2	1		3.7			2.9			2.7			3.6
AVE *nickness ift_			. 39	ł		. 34			. 34			.49			. 39
HVG trap freq GHz	Γ		.53			. 57			. 67			.39			.45
AVG for grd -NAKft	l		57	ĺ		59			55			55			58
AVG lur base Eft	1		2.9	i		3.5			2.6	!		2.3	į		3.3

Ļ

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PEPLE T UCCUPRENCE	78	AFL	r	J	4H-HI	3R	Ri	25-11	UN	J	L-S	EP.	90	T-D	EC
<u> </u>	da:	211	dtn	dair	nit	dt n	day	711	d\$n	C217	** 1 2	den	dass	ett	dtn
0 *c 18 Feet	9	10		6	8	7	9			13	13	13	7	9	8
15 to 28 Feet	7	:5	10	8	: 2	19	3	12	18	8	11	10	6	11	8
28 10 30 Feet	11	,,,	14	12	19	16	12	18	15	9	15	12	10	15	13
30 to 40 Feet	13	18	15	14	28	17	1.4	18	16	10	15	13	13	17	15
40 to 50 Feet	12	13	1,3	14	15	15	11	13	12	Ģ	1:	16	13	14	14
50 to 60 Feet	G	_ 4	£.3	11	:0	10	8	7	8	ε	\$	8	11	11	11
60 to 70 Feet	6	5	5	7	4	6	6	4	5	5	4	5	7	6	6
70 1: 80 Feet	4	2	3	4	2	3	4	2	3	4	3	3	5	3	4
SO to 90 Feet	2	ĩ	2	_2	1_	2	2	1	_ 2	2	2	2	3	2	2
90 to 100 Feet	2	1	2	2	1	1	5	1	1	2		2	2	1	2
above 100 Feet	24	12	18	19	8	13	26	14	26	36	17	24	23	11	17
Nean height Feet	• • •	52	62	65	44	55	73	53	63	79	۲-	€9	74	52	63

GENERAL METEOPOLOGY COMMERTS:

PAPAHETER	r	EAPL	*	J	AH-H	ar :	A1	PR-31	H	- 29	JL-Si	EP	00	T-DE	C
	ರತ	ភារ	d&n	da	A11	din	dav	DIS	din	day	nit	dtn	day	nıt	37 0
% occur ELtSB dc+s			1			1			1			2			~.7
% occur 2+ EL deta			1	l		Q.	į		1			1			8
AVG station h			331	l		325			329			339			330 l
AVG STATION -H + ft			16			15			16			19			:5
AVG SEC wind Lt.	12	15	12	13	13	13	12	12	12	11	13	11	13	12	12

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMM-9-

Specified location: Radiosonde source : 8495 36 89 H 5 19 W

36 09 N 5 19 W

(*) INDICATES INSUFFICIENT DATH

Radiosonde station height: 13 Feet Surface obs source: MS109 35 00 H 5 00 H

EFPIFUT DICUPPENTE OF ENHANCED SUPPECE-ID-SUPPECE PARAP FSM COM PANCES:

PERCENT OCCURRENCE	U, E	errinin.	<u> </u>	JUNE	- A	10-3	OFFR	LE 151	אתעה	E 311	COIL	KUU	<u> </u>		
FREQUENCY	Y	EARL'	Y	J	1H-116	R	A1	PR-JI	JH.	J	JL-SI	P	01	1-D	EC
	day	nit	₫₽n	day	nit	d&n	day	nıt	d&n	day	211	den	day	nıt	<u>d- n</u>
160 HHz	1	1	1	6	- 6	9	1	1	1	2	2	2	1	8	1
1 GHz	27	16	22	28	9	14	29	19	24	36	25	30	25	12	19
3_GHz	33	_ 28	26	_ 25	11	13	34	_23	_ 29	_41_	30	36	_31	_16	23
6 GH≥	52	36	44	46	27	37	51	37	44	57	44	50	52	36	44
10 GHz	75	65	70	74	62	68	74	65	70	74	67	71	78	67	72
20 GHz	85	81	83	_ 86	_81	83	85	81	83	82	69	81	83	81	34

SUPERCE PASED DUCT SUMMARY.

PARAMETER	Y!	APL'	Υ	J	Ati-HI	RP	Af	7R-J	UN	31	UL-S!	EP	00	CT-Di	EC
	day	nit	d&n	day	nit	d&n	day	nit	din	day	018	dan	day	nit	d'n
Percent occurrence	8	9	8	4	3	4	10	12	11	13	15	14	5	4	5
AVG thickness Kft	ĺ		.30	[. 20	l		. 30			. 48			. 22
AVG trap freq GHz	ĺ		1.3			2.5	l		1.1	l		. 65			1.2
AVG lyr grd -N Yft	Ĺ		98	Ĺ		115			112			73			89

PARAMETER		ERRL'			AH-111			PP-J			L-SI			CT-DI	
	day	nıt	din	day	217	den	day	nit	dan	day	011	d&n	Cay	nit	dan
Percent occurrence	24	27	25	13	14	14	21	27	24	47	49	48	14	17	1=
AVG top ht Kft	ł		2.9]		3.0	l		2.8	ļ		2.7	l		2.9
AVG thickness Kft			.42	ĺ.		.31			. 38	ĺ		.58	1		. 40
AVG trap freq GHz			.46			.71			.44			.23			. 45
AVG lyr grd -N/Kft	Ì		58	i		56	i .		58			60	l		58
AVG lyr base Kft	Ī		2.5	ĺ		2.8	ĺ		2.5	(2.3	ĺ		2.6

E-APCRATION DUCT MISTOGRAM IN PERCENT OCCURRENCE:

ETHLCHUIDH DOCT HIS	S'UGFHN IN	PEPCE	TO OCCUR	CHCE.		
PEPCENT OCCUPRENCE	YEARLY	35	AN-HAR	APR-JUN	JUL-SEP	JET-DEC
	day nit di	n dav	nıı dên	day Tit dan	day ni den	day not den
0 to 10 Feet	9 :6	9 6	8 7	9 9 9	13 12 13	7 9 3
10 to 20 Feet	7 12 1	8 16	12 18	8 12 19	8 11 10	6 11 3
28 to 38 Feet	11 17 1	12	19 16	12 13 15	9 15 12	18 15 15
30 to 40 Feet	13 13 1	5 14	29 17	14 18 16	10 15 13	15 17 15
40 to 50 Feet	12 13 1	3 14	15 15	11 13 12	9 11 19	13 14 14
50 to 60 Feet	g g	9 11	18 18	8 7 \$	8 8 8	11 11 11
60 to 70 Feet	6 5	5 7	4 6	6 4 5	5 4 5	7 6 6
78 to 88 Feet	4 2	3 4	2 3	4 2 3	4 3 3	3 3 4
80 to 90 Feet	2_ 2_	2 2	1 2	2 1 2	2 2 2	3 2 2
98 to 188 Feet	2 1	2	1 1	2 1 1	2 2 2	2 1 2
above 188 Feet	24 12 1	Bj 19	8 :3	26 14 29	39 17 24	23 .1 17
Hean height feet	73 52 6	2 63	44 55	73 53 63	79 57 68	74 52 53

PARAHETEP	YEAPLY	Jiste-Har	APR-JUN	JUL-SEP	oct-dec
	day nit den	day n:2 din	deu ait den	day not stn	day not don
% occur EL&S& dets	2	1	2	5	á
", occur 2+ EL dets	۵	1	2	10	1
AVG station !!	340	339	339	355	33€
AVG station -H/Kft	16	24	16	29	:5
AVG efc used Kts	12 12 12	13 13 13	12 12 12	11 10 11	13 12 12

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMAP

Specified location: 32 40 N 16 46 N (+) INDICATES INSUFFICIENT DATA

Radiosonde source : 8521 32 40 N 16 46 H

Padiosonde station height: 200 Feet Surface cbs source: NS119 35 80 N 15 00 N

PERCENT OCCURRENCE OF ENHANCED SUPPOCE-TO-SUPPOCE PADAR ESM COM DANTES.

			MANIA			<u> </u>							P 74	<u> </u>		
FREC	DUENCY	Y	ERRL'	Y	J	HN-M	35	Ri	PR-J	Νij	JU	JL-S!	EΡ	0:	CT-DE	Eε
		day	nıt	d&n	day	net	d£n	day	nit	den	day	nit	dtn	day	25.5	džn
100	MHz	4	1	2	2	1	1	4	í	3	8	1	5	3	1	2
1	GHZ	33	9	21	28	6	13	33	11	22	51	12	31	28	8	18
3	GH2	42	_ 13	27	27	9	18	42	14	28	61	16	39	38	12	25
5	GHZ	65	37	51	52	30	41	63	34	49	79	41	60	57	41	54
10	GHz	86	73	79	79	68	74	85	71	78	91	75	83	88	77	8.
20	GHz	93	87	90	es	85	87	93	87	98	95	63	92	94	89	92

<u>:</u>

SURFACE BASED DUCT SUMBARY:

PARAMETER	Y	EARL'	Y	J	AN-M	AR	A	R-J	אט	Jį.	JL-SE	P	34	CT-DI	EC
	day	rit	dan	dav	nit	d&n	day	nıı	dŁn	dau	nit	den	day	nit	dşn
Percent occurrence	27	- 6	17	14	- 5	10	29	9	19	44	6	25	22	5	14
AVG thickness Kft	!		.30	1		.23	ł		. 30			. 38			.28
AVG trap freq GHz			1.9	1		1.4	ŀ		. 83	i		.46	l		1.2
AVG lun and -H/Kft			75			82	<u></u>		66			78			84

ELEYATED DUCT SUMMARY:

PARAMETER	Y	EARL	γ	Ji	AH-M	AR .	P.E	-K-1	ŲН	Jt	L-Si	P	00	T-DI	33
	day	F-12	<u> </u>	day	nit	den	day	nit	dan	day	711	dŧn	day	nit	den
Percent occurrence	36	€6	51	26	59	43	32	66	49	55	86	71	39	51	41
AVG top ht Kft			4.8	i		4.9	i		4.5			4.0	į		5.6
AVG thickness Kft		_	.54	İ		.41			. 54			.77	Ī		. 45
AYG trap freq GHz			.26			.33			.28			.13	I		.32
AVG lyr grd -N/Kft			54	l l		61			54			66	i		64
AVG lur base Kft			4.4	1		4.6			4.4	ŀ		3.5	I		5.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

FEFCEN) OCCURRENC	E¦ Y	ENRL	ď	į Ji	an-H	RR	6.1	P-31	UN	31	UL-SI	EF -	0:	CT-DE	C
	9.0	7-17	den	day	nt	dèn	Jay	nit	din	day	nit	dsn	day	n·t	dz.
A to 18 Feet	1 5	5	5	6	6	6	6	5	5	5	5	5	4	4	4
10 to 20 Feet	3	8	7	7	10	8	5	ė	7	4	7	- 5	4	7	€
20 to 30 Feet	9	. 15	12	11	17	14	10	18	14	7	13	13	8	13	10
30 to 10 Feet	12	15	16	14	26	17	13	21	17	9	18	14	21	18	14
40 to 50 Fest	14	13	17	15	19	17	15	19	17	12	18	15	14	28	17
50 to 60 Feet	1 12	13	13	13	12	12	12	12	12	12	14	13	13	15	14
68 to 78 Feet	7 9		8	9	- 5	8	8	- 6	?	9	8	8	11	9	10
70 to 80 Fest	5	4	5	5	3	4	5	3	4	5	4	5	8	5	5
80 10 30 Feet	- 4	2	3	_3	1	2	3	1	2	4	2	3	5	2	4
98 to 198 Feet	3	1	2	2	1	1	2	1	1	3	1	2	3	1	- 2
above 100 Feet	21	6	14	14	4	9	29	6	13	30	8	19	20	6	13
Rean height Fest	73	48	58	61	43	52	70	46	59	8€	52	69	73	58	€:

GENERAL METEOROLOGY SUNHAPY:

PAPAHETEP	YEARL'	′	JA	H-KF	R	AP	P J1	3N	Jŧ	JL-SI	EΡ	00	T-LI	EC
	380 DIE	d&n	day	211	den	day	nst	din	day	211	di.	da.	P. 1 *	din.
% creur ELISB dets		9	-		3			8			18			4
% occur 2+ Si, dcts		3	l		3			4			6	ļ		1
RVG scatton N		338	ŀ		329			335			350	[337
AVG 31317011 -H/Yft		15	ł		13			14			18	ļ		1.4
AVG afc usnd his	14 13	13	15	14	15	14	13	14	13	:2	12	14	13	13

IPEPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMAPY

Specified location: 38 43 N 27 04 W (*) INDICATES INSUFFICIENT DATA

Radiosonde source: 8509 38 43 N 27 04 W Radiosonde station height: 367 Feet Surface obs source: MS111 35 00 N 25 00 W

DESCRIPT SECURPTURE OF THURSEST CHORDES TO CHARGE DORON FOR SON DOLLES

MENCEN! CCCORREGE	E UP EI	HINN	CED	SUKF	<u> HLE-</u>	10-21	- KL P	- F	HUMP	F 2 12	1.00	FMK	<u>uE>.</u>		
FREQUENCY	Y	EARL	Y	J	AH-N	AR	A	PR-J	UK	Ī	UL-S	EP	0	CT-DI	ĒC
	day	nit	d&n	day	nit	dan	day	7112	d&n	day	nit	dan	day	nit	d&n
100 MHz	2	1	1	1	ī	1	2	1	2	3	1	2	1	1	1
1 GHz	28	10	19	18	7	12	32	12	22	41	12	27	21	7	14
3 GHz	36	13	_25	24	9	17	39	_ 15	27	<u>5</u> 0	1.7	33	30	12	_ 2 i
6 GHz	59	37	48	47	3:	39	59	32	45	71	41	56	58	→1	50
10 GHz	81	78	75	73	67	70	79	64	71	88	74	81	82	74	75
20 GHz	i 89	84	87	85	82	83	87	81	84	i 93	87	90	91	87	89

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL'	7	J	AN-M	AR	AI	R-J1	Jh	J	JL-s	P	Ú	T-DE	ĒĈ —
	cay	nit	dan	day	nit	dŁn	day	nit	dan	dav		48 0	day	nıt	den
Percent occurrence	15	6	11	11	5	8	18	6	1.2	19	7	13	12	6	9
AVG thickness Kft			-24	1		. 25	l		. 25	İ		.26	1		.21
AVG trap freq GHz			1.1	l		1.2	l		. 90	l		. 82	ł		1.5
AVG lyr grd -H Kft		_	189	ĺ		124			74			87	ĺ		11:

FLEVATED DUCT SUMMARY:

PARAMETER	YI	EARL	r	31	AN-M	ar.	AF	R-JI	JN	J.	JL-Si	EP	90	T-DE	Ĺ.
	day	nit	din	day	1111	d&n	day	nıt	d&n	da	nı.	dt n	da	nit	<u>d</u> 8 ~
Percent occurrence	43	53	48	36	42	39	46	55	51	5:	63	5.7	35	50	45
AVG top ht Kft			5.2	1		4.9			5.1	ł		5. ₹			5.4
A'G thickness Kf'			. 44	!		. 48		_	. 40			.48			.47
AVG trap freq GHz			. 31		_	.33			. 37			. 29			.26
AVG lyr grd -N/Kft			65			67			62	İ		63			68
AVG for base Kft			4.9	l		4.7	ĺ		4.8	l		5.1			5.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCC	URRENCE	76	ARL	ı	J	ลห-หต	18	AF	- R-JI	JN	31	JL-Si	P	00	T-DE	EC
			day	***	den	day	n11	der	day	nit	den	day	211	dşn	Cay	n t	din
e to	10	Feet	7	7	7	9	8	8	9	9	9	5	5	- 5	8	6	6
10 to	28	Feet	6	18	8	8	11	5	7	11	9	4	9	6	5	ક	6
20 to	30	Feet	9	15	12	12	16	14	9	18	14	6	14	10	9	13	11
30 to	40	Feet	11	18	15	14	19	16	12	18	15	ءِ ا	17	13	12	17	14
40 to	56	Feet	13	17	15	15	17	16	12	16	14	10	1.7	14	15	18	16
58 to	66	Feet	11	13	12	12	13	12	10	18	_10	10	12	11	14	15	_14
60 10	70	Feet	8	7	8	8	7	7	7	4	6	8	8	8	10	9	10
?0 to	εG	Feet	6	4	5	5	3	4	5	2	3	6	5	6	7	6	- 5
83 10	90	Feet	4	2	3	3	1	2	3	_ 1	2	4_4	≥	3	5_	3	_ 4
98 to	100	Feet	2	1	2	2	1	1	2	ī	1	3	1	2	3	1	2
above	:00	Feet	22	7	15	14	4	9	25	9	17	35	9	22	16	5	11
Hean he	ear t	Feet	73	47	60	58	43	58	75	46	60	93	52	73	67	48	5 5

PARAMETER	YE	ARL	Y .	31	AN-H	AP	AF	<u>5-1</u>	UN	31	しとーち	EP	Ü	CT-DE	EÇ
	day	n++	dan	day	211	d\$n	dav	n11	dan	dav	210	CEN	day	nit	dsn
% occur EL&SB dcts			4			2			5			- 6			2
% occur 2+ EL dcts			8	1		3	i		10			14	ŀ		6
AVG station N	l		339	İ		329	l		336	1		349			348
RVG station -N/Kft	l		15	•		14	•		15	ŀ		:6	l		
AVG sfc uind ris	14	13	13	16	16	16	12	12	12	11	10	18	16	14	15

IPEPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 35 00 N 35 00 W (*) INDICATES INSUFFICIENT DATA Radiosonde source : 8509 38 43 N 27 04 W

Radiosonde station height: 367 Feet

Surface obs source: MS112 35 90 N 35 00 H

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAPYESM COM PANGES:

FREQUENCY	Y	EARL'	r	Ji	M-NB	AR _	AI	R-J	JH .	Ji	JL-SI	P	-00	CT-DI	EC
	day	nıt	dan	day	7117	d&n	day	nit	dan	day	n11	den	dan	nıı	d* -
190 MHz	2	1	1	1	1	1	2	1	2	3	1	2	1	1	1
1 GHz	27	9	18	16	6	11	32	11	21	41	13	27	19	7	13
3 GHz	35	14	24	22	9	16	39	14	27	_50	18	34	29	13	21
6 GHz	66	39	50	49	35	42	59	32	46	73	46	68	59	43	51
10 GHz	82	72	77	75	69	72	79	66	73	89	78	83	83	76	79
20 GHz	90	86	88	86	83	84	88	82	85	94	90	92	91	88	98

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	ERRL	Υ	31	AN-M	AR T	AF	R-JI	אנ	- 31	JL-Si	EP	00	CT-DI	EC
	day	nit	_d&n	day	nit	d&n	day	1111	d&n	day	nit	dan	day	nit	dan
Percent occurrence	15	- 6	11	11		8	18	6	12	19	7	13	12	6	- 3
AVG thickness Kft			. 24			. 25			. 25	i		.26			.21
AVG trap freq GHz			1.1	ì		1.2	i		. 93	1		.82	ļ		1.5
AVG lyr grd -N/Kft			166			124			78	<u> </u>		87	_		111

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	r	J	AH-H	9R	AF	R-JU	JN	Ji	JL-SE	Ρ	00	CT-DI	c
	day	nit	d&n	day	nıt	dån	day	n:1t	den	da	nit	d\$n	đa;	nit	dir
Percent occurrence	43	53	48	36	42	39	46	55	51	51	63	57	39	50	45
AVG top ht Kft			5.2			4.9	ł		5.1	i		5.4			5.4
AVG thickness Kft			. 44			. 48	l		.48			.48	_		.47
AVG trap freq GHz	i	_	. 31			. 33			.37			.29			.26
AVG lyr grd -H/kft.			65	l		67	l		62			63			68
AVG lur base Kf:			4.9			4.7	<u>L</u> .		4.8			5.1			5.1

EVAPOPATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	Y	EARL	Y	J	AN-M	iR.	B	PR-J	ŲK	J	UL-SI	P	0	T-BE	C
	day	nit	dan	day	nit	d&n	day	nıt	d&r	da.	211	dŧ∽	da	nit	dt r
0 to 10 Feet	7	6	€	9	8	8	8	8	8	4	4	4	5	- 5	5
10 to 20 Feet	5	9	7	7	ė	8	6	11	è	3	S	5	5	8	6
28 to 38 Feet	9	14	12	12	15	13	10	17	13	5	12	Ģ	_ 9	_13	11
30 to 40 Feet	11	17	14	14	17	16	11	19	15	8	16	12	12	16	14
48 to 50 Feet	13	17	15	14	18	16	12	16	14	11	18	14	14	18	15
50 to 60 Feet	12	14	_ 13	13	14	13	16	11	10	11	_16	13	14	15	15
60 to 70 Feet	9	8	8	9	8	8	7	5	- 6	9	8	3	11	10	10
70 to 80 Feet	6	4	5	6	4	5	5	2	4	7	5	6	8	6	7
88 to 90 Feet	1 4	_ 2	3	3	2	2	3	1	2	_ 5	2	3	5	3	4
90 to 100 Feet	2	1	2	2	1	1	2		1	3	3	2	3	1	2
above 100 Feet	21	7	14	11	4	8	24	8	16] 34	16	22	15	5	10
Hean height Feet	73	48	60	56	44	50	75	46	61	94	.55	-5	65	49	57

PARAMETER	Y 5	APL	ï	Jí	H-HA	R .	ĀF	- F-J	JK	J	UL-S	ĘΡ	0	CT-D	EC
	Cay	nit	den	day	n11	đěn	day	nii	dtn	day	nit	d&n	da	nit	din
% occur EL&SB dcts			4			2			5			6			2
% occu: 2+ EL dets			8	l		3			10			14	i		6
AVG station N			339			329			336			349	l		340
AVG station -H/Kft	l		15	ļ		14			15	1		16	l		15
AVG sfc wind I'ts	14	13	14	17	16	17	13	12	12	10	9.5	10	16	15	16

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMAPY

Specified location: 35 00 N 48 00 W (*) INDICATES INSUFFICIENT DATA Radiosonde source: 4YE 35 00 N 48 00 W

Radiosonde source: 4YE 35 00 N Radiosonde station height: 39 Feet

Surface obs source: MS113 35 00 N 45 00 H

PERCENT ACCUPATION OF ENHANCED CHAPTER TO CHAPTER DOTOR FOR COM ROUSES

PERCENT (OCCUPRENCE	OF EI	HAN	CED :	SURF	BCE-	10-SI	URFAL	E RI	ADAR	ES#	COM	PAN	GES:	_	
FRE	PUENCY	YI	ARL'	Y	J	RN-MI	AR .	Al	R-JI	UH	Jŧ	JL-SI	EP	01	T-DI	EC
1		day	nit	d&n	day	nit	d&n	day	nit	dan	day	rit	dan	day	nit	d&n
160	HHZ	2	1	1	1	1	1	2	1	1	4	1	2	1	1	-:
1	GHZ	25	8	17	13	6	10	27	9	18	42	11	27	19	7	13
3	GHz	<u>[33</u>	13	23	20	10	15	33	12	22	51	16	34	29	13	21
6	GHZ	62	42	52	51	39	45	56	32	44	7€	47	51	64	51	57
10	GH≈	83	75	79	78	73	75	78	66	72	96	79	85	86	82	84
28	GHZ	91	87	89	88	86	87	87	82	84	95	91	93	93	91	92

SURFACE BASED DUCT SUMMAPY:

PARAHETER	Y	ERRL'	Y	J	AN-KI	RR	R	P-J	JH	JI	UL-S!	P	01	CT-DI	EC
	day	nit	dan	day	nit	d&n	day	nit	dan	day	nıt	d&n	day	nit	dán
Percent occurrence	11	4	8	6	6	6	12	4	8	20	4	12	5	3	5
AVG thickness Kft	1		.42			.25	ŀ		.39			.58			.47
AVG trap freq GHz			.71			1.3			.78			.48			.33
AVG lyr and -H/Kft			105			189	1		106			:04			99

FIEVATED DUST SUNMARY:

PARAHETER	Y	ERRL	Y	J	AH-MA	R -	RE	PR-JI	JH	J.	JL-Si	EP	00	CT-DI	EC
	day	nit	d&n	day	nıt	dan	day	nit	d&n	dan	nit	d&n	dav	nit	d&n
Percent occurrence	31	43	37	29	39	34	48	52	46	28	45	37	28	37	33
AVG top ht Kft			5.7			5.5	l		5.4			5.7			6.1
AUG thickness Kft	_		. 43			.36			.43			.49	l		43
AVG trap freq GHz			.39			.49			.39			.32			. 35
AVG lyr grd -H/Kft			69	ł		59	i		61			59	l		60
AVG for base Kft	i		5.4			5.2	!		5.1	ſ		5.3			5.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	000	UPREHCE	78	ARLY	′	J	AH-M	AR	R	PR-J	ИL	31	JL-SE	P	01	CT-DE	:C
<u> </u>			day	nt	d&n	day	nit	d&n	day	nıı	den	day	212	den	day	nıt	den
8 to	10	Feet	5	5	5	7	5	- 6	8	8	3	3	3	3	4	3	3
18 tc	20	Feet	5	8	6	6	9	7	7	11	9	3	7	5	4	5	4
20 10	30	Feet	8	13	11	10	14	12	10	_17	13	6	12	9	7	9	2
30 to	40	Feet	11	16	13	13	17	:5	12	18	15	8	15	11	10	14	12
48 to	50	Feet	13	18	15	15	18	17	12	17	15	10	18	14	14	18	16
58 10	60	Feet	13	15	14	14	15	15	11	12	12	12	16	14	14	18	15
60 to	70	Feet	10	- 9	10	19	٥	10	8	6	7	10	10	18	13	13	-:3
70 to	80	Feet	7	- 6	6	7	5	6	5	3	4	8	6	7	9	8	9
88 10	90	Feet	5	2	3	4	2	3	3	1	2	- 5	3	4	6	4	5
98 to	100	Feet	3	1	2	2	1	2	2	1	1	4		3	- 4	2	3
above	100	Feet	20	6	13	11	4	7	21	7	14	32	ė	31	15	5	10
Hean he	191	t Feet	72	50	61	58	46	52	71	46	58	93	56	73	<u> 68</u>	53	60

PARAMETER	Yŧ	ARL'	,	Ji	ลห-ท	AR	8F	R-J	אט	J	UL-S	ĒΡ	0	CT-D	EC
	day	nit	d&n	day	nit	d&n	day	211	d&n	day	nit	_d&r.	Cay	การ	d÷~
% occur EL&SB dcts			2			1			3			4			1
% occur 2+ EL dcts			5			3	ŀ		7			7	l		3
AVG station N			354	i		338			352	ŀ		373	i		352
AVG station -N/Kft			17	i		14			17			19	l		15
AVG afc wind Kts	15	14	14	19	17	18	13	12	13	11	18	10	17	15	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMAR.

Specified location: 35 00 N 55 00 N (*) INDICATES INSUFFICIENT DATA Radiosonde source: 4YE 35 00 N 48 00 N

Radiosonde station height: 39 Feet

Surface obs source: MS114 35 00 K 55 00 W

PERCENT OCCURRENCE OF ENHANCED SUPFACE-TO-SUPFACE RADAR ESM COM RANGES

PEPLEN!	ULLUKKEALE	UP E	HHHM	ren:	SUPFI	MLE-	10-50	UPFHI	LE K	HUNF	E 517	CON	KHA	3E 3.		
FRE	DUENCY	Y	EARL'	Y	J	AN-MA	RR	AI	PR-J	UH	31	JL-S	EP"	0	CT-DI	EC
l		day	nit	d&n	day	nit	d&n	day	nıt	den	day	nit	dan	day	nit	den
100	HHz	2	1	1	1	1	1	2	1	1	4	1	2	1	1	1
1	GHz	23	8	15	12	6	9	23	7	15	39	12	26	18	7	12
3	GHZ	33	14	23	28	11	15	30	11	28	50	18	34	31	16	23
6	GHz	64	47	55	55	45	58	55	34	45	75	51	63	69	58	64
10	GHz	85	78	82	82	78	89	77	68	72	91	82	86	89	86	88
20	GHz	92	89	98	91	89	90	86	81	84	95	91	93	94	93	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL	Y	J	AH-M	₹R	A:	R-J	ΠN	31	JL-S	P	Q	T-DE	EC .
i	day	nit	den	day	nit	ರ ೩n	day	nit	din	day	nit	dan	day	nit	₫\$n
Percent occurrence	11	4	8	6	ϵ	6	12	4	8	20	4	12	6	3	5
AVG thickness Kft	l		.42	l		. 25			.39	ļ.		.53	l		.47
AVG trap freq GHz			.71	1		1.3			.78	Ì		. 48			.33
AVG lyn gnd -N/Kft			105			i 89			198			104			99

ELEVATED DUCT SUMMARY:

PARAMETER	Ý	EARL'	Y	J:	9H-M	9.R	AI	<u> </u>	JH	Ji	iL~SI	P	00	; 7 - DI	EC
	day	nit	dån	day	nit	děn	day	r. 1 t	d&r.	day	nit	dan	day	nit	den
Percent occurrence	31	43	37	29	39	34	49	52	46	28	45	37	28	37	33
AVG top ht Kft			5.7	ŀ		5.5	i		5.4	l		5.7			6.1
AVG thickness kft			. 43	L		. 36	l		.43			. 49			.43
AVG trap freq GHz			.39			.49			.39			.32			.35
AVG lyr grd -N/Kft			60	l		59			61	i		59	•		60
AVG lyr base Kft	_		5.4			5.2			5. 1			5.3			5.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT O	CCURRENCE	YE	APLY	′	,	AN-N	AR I	AI	PR-Ji	JN	31	Ji -SI	Р	00	T-DE	C
		day	กาเ	d&n	dau	กาเ	d&n	day	nit	d&r	day	nit	d£n	day	nit	d'r
0 to 1	0 Feet	5	5	5	5	5	5	9	9	9	4	3	3	3	3	<u>-</u>
10 to 2	0 Feet	4	7	5	5	7	6	6	19	8	3	6	4	3	4	3
20 10 3	0 Feet	7	11	9	9	12	11	10	14	12	5	10	ક	_ 5	- 8	- 5
30 to 4	0 Feet	10	15	13	13	16	14	11	18	15	Ä	14	11	8	12	10
40 to 5	0 Feet	13	17	15	16	18	17	13	17	15	11	18	14	13	16	15
50 10 6	0 Feet	14	16	15	16	17	16	12	14	13	iè	17	14	15	18	17
60 to 7	0 Feet	11	11	11	12	11	12	9	7	8	11	11	1 i	14	15	14
73 to 8	0 Feet	8	7	8	ક	6	7	€	4	5	! ક	7	7	11	10	11
80 to 9	0 Feet	5	3	4	5	_3	4	3	2	3	5	3	4	8	6	7
90 to 1	60 Feet	3	2	3	Ξ	1	2	2	1		4	2	3	5	3	÷
above 1	00 Feet	18	6	12	9	3	6	18	5	11	30	10	20	14	4	9
Hean her	gh' Feet	71	52	61	58	48	53	66	45	55	89	53	73	70	5€	6.5

PARAMETEP	YE	GRL'	r	J	11-11F	RR	97	P- 11	JH	7	JL - 63	P	OC.	T-DE	C
	da	nıt	dan	day	011	d&n	day	nit	dŧn	day	21.	43.2	day	nit	den
% occur EL&SB dcts			2			í			3			4			1
% occur 2+ EL dcts			5	i		3	l		7			7	1		3
AVG station N			354			338			352	1		373	ŀ		352
AVG station -N/Kft			17			14	l		17			19:	ŀ		16
AVG sfc wind kis	16	15	16	20	19	19	15	14	14	12	11	11	18	17	17

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMAF.

Specified location: 32 22 N 64 40 W (+) INDICATES INSUFFICIENT DATA

Radiosonde source : 78016 32 22 N 64 40 H

Padrosonde station height: 89 Feet

Surface obs source: MS115 35 00 N 65 00 H

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAP ESM COM PANGES:

PEPLEMI DELUKBENCE		. diriti		JUFF		. 0 _ 5,	OFF (1)		1DITE	F 24.					
FREQUENCY	Y	EARL'	Y	J	AN-M	ar.	Ri	PR-JU	JH	31	JL-SI	EP	01	CT-DE	EC
	day	nit	d&n	day	nıt	din	Cay	nit	din	day	การ	ರಕ ್	day	การ	din
100 MHz	1	8	8	8	8	0	1	6	1	1	Ü	1	Ð	8	9
1 GHz	18	7	12	8	4	6	19	7	13	29	11	20	14	7	10
3 GHz	27	14	28	15	9	12	26	10	18	40	17	28	28	17	3 ء
6 GHz	64	52	58	56	49	53	57	41	49	71	55	63	71	65	- 68
10 GHz	85	82	83	83	88	82	78	72	75	89	84	87	90	89	÷19
20 GHz	92	91	91	91	98	90	86	85	86	94	93	93	95	95	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL	Y	J	AH-M	AR	A	- F-1	UN:	J	<u> </u>	P	_ O	T-D	EC
	day	nit	ರಹಿಗ	day	nit	d&n	day	nıt	din	dau	nit	ರ೭೧	dau	nit	42.
Percent occurrence	2	2	2	1	3	- 2	3	1	2	3	2	3	2	2	2
AYG thickness Kft			. 55	l		. 39			. 82	İ		. 65	l		.38
AVG trap freq GHz			. 45	i		.84	i		.20			. 35	l		. 41
AVG tur grd -N/Kft			161	L		156			114			193	<u> </u>		182

ELEVATED DUCT SUMMARY:

PARAMETER	Y!	HRL	7	J	Alt-M	iP	A	PR-J1	JN	Ji	JL-SI	P	00	T-DE	C
	day	nıt	dŧn	day	1512	den	dav	nit	dan	day	nit	dtn	day	n't	<u>g* n</u>
Percent occurrence	39	46	42	36	40	38	45	53	49	32	43	37	42	48	45
AVG top ht kft			6.0	ĺ		5.8			5.2	ļ.		6.7			6.3
AVG thickness kft			.43	<u> </u>		.42			. 46			. 36			.48
AVG trap freq GHz			.33			.32			. 27			.42			.28
AVG Byr and -H/Kft			68	i		65	ł		69			64			72
AVS for base "ft			5.7	İ		5.5			4.9	i		6.5			6.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCE	NT	600	URRENCE	Y	ARLY	r	31	กล-เก	ap qe	AF	P-31	JH	J	.૫ડા	EP :	30	JT-DE	3
				day	nit	ರಕ್ಷಣ	₫ a ÿ	14.7.2	うたり	day	216	din	day	nı.	dsn	Ca,	711	d*r
0	to	10	Feet	5	4	5	5	- 5	5	8	7	8	4	3	3	3	2	3
10	to	20	Feet,	4	5	5	4	5	5	6	8	7	3	5	4	2	3	3
59	10	36	Feet	7	9	8	_8	19	9	ક	13	11	5	8	7	5	5	5
30	:0	40	Feet	9	13	11	1:	14	13	10	15	13	\$	12	10	9	10	7
46	10	50	Feet	13	17	15	16	18	17	12	17	:5	11	17	14	12	15	13
56	* 0	60	Feet	14	17	16	17	19	18	13	15	14	12	:3	15	15	18	17
60	10	70	Feet	13	13	13	15	14	14	11	10	10	11	12	12	16	17	- ;;
78	10	80	Feet	10	Ģ	9.	10	8	9	8	6	7	9	9	' و	13	12	13
88	10	36	Feet	6	4	5	5	3	4	*	2	3	ا ا	4	- 5	8	7	\$
90	10	100	Feet	1	2	3	3	1	2	2	1	2	4	2	3	- 6	4	5
abo	9.,€	100	Feet	16	6	11	7	3	5	17	6	11	28	9	18	13	5	9
Hear	'n	erah	ı feet	78	54	€2	57	50	53	67	49	58	86	€0	73	70	59	64

PARAMETER	YEARL	Y	Jí	111-111	R.	ន្ទ	R-J	JH :	<i>3</i> 1	JL-31	P	C	C T - DS	EC
	day nit	den	day	nıı	dŧn	day	nit	din	da	P) 1 T	dt r	da	nit	d≯n
" occur EL&SB dcts		1			<u>1</u>			1			1			1
% occur 2+ EL dcts		19	ł		9	İ		10	į.		12			10
AVG station H		344			324			346			367	i		33è
AVG station -H/Kft		15	ļ .		12			16			18	i		13
AVG sfc usna kts	17 15	16	21	19	20	15	14	15	12	11	12	18	17	: 3

(*) INDICATES INSUFFICIENT DATA Specified location: 35 16 N 75 33 H Radiosonde source : 72304 35 16 N 75 33 W

Radiosonde station height: 10 Feet Surface obs source: MS116 35 00 N 75 00 H

FREQUENCY	Y	EARL'	Y	JI	าห-หเ	BR	AI	R-Ji	JN	JI	JL-SI	EP	0:	CT-DI	EC
	day	nıt	d&n	day	nıt	d&n	day	nıt	d&n	day	nit	d&n	day	nit	dan
100 MHz	2	2	2	1	1	1	3	3	3	2	2	2	2	2	2
1 GHz	25	14	19	14	9	11	38	18	24	33	17	25	22	14	18
3 GHz	36	23	29	24	17	20	40	26	_33	42	25	33	37	27	32
6 GHz	66	57	62	59	52	56	63	53	58	78	59	64	72	65	69
10 GHz	83	79	81	89	77	78	78	74	76	85	82	84	88	85	87
20 GHz	89	87	88	87	85	86	84	82	83	91	89	90	93	91	92

PARAMETER	_	EARL	Y	J	RH-M	R.	RI	PR-J	JH	J:	JL-SE	Р	01	T-DI	C
	day	rit	d&n	day	nit	d&n	day	nit	d&n	day	nit	dtn	day	nit	dan
Percent occurrence	12	13	13	9	10	10	18	16	17	19	11	11	12	16	14
AVG thickness Kft			. 40	l		.30			. 43	l		.54	ļ .		.33
AVG trap freq GHz			.72			1.2	1		.51			.33	1		.86
AVG lyr grd -N/Kft	į		77	l		82	L		72			71	l		83

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	J	AN-HI	AR :	RI	PR-JI	JN .	JI	JL-SI	EΡ	Q(CT-DI	EC
	day	nıt	den	day	nit	d&n	day	nit	d&n	day	nit	dan	day	nit	den
Percent occurrence	35	38	36	24	26	25	33	38	36	42	43	43	40	43	42
AVG top ht Kft			5.2	1		4.6			5.5			5.3			5.2
AVG thickness Yft		_	.41			.32			.39			.49			. 43
AVG trap freq GHz			.42		-	. 54			. 44			.32			.37
AVG lyr grd -N/Kft	İ		59	1		6C			58			59			60
AVG lur base Kft	i		4.9	l l		4.4	l		5.2			4.9	L		4.9

EVAPORATION BUCK HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURP	ENCE	YE	ARLY	7	J	M-HF	18	AF	アトーダ	JN	31	JL-SI	EP	00	CT-DI	EC
		day	nıt	dan	day	nit	ರಹಿಗ	day	nit	din	day	nıt	d£n	day	nit	den
0 to 10 Fe	et	9	9	9	10	10	10	15	14	15	7	7	7	5	6	6
10 to 20 Fe-	er	4	6	5	5	6	6	5	7	6	4	ε	5	3	5	4
20 to 30 Fee	ez	6	8	7	7	9	8	7	9	8	6	8	7	5	7	6
38 to 40 Fe	ęı	6	11	9	10	12	11	8	11	9	7	11	9	7	9	8
40 to 50 Fee	et	11	14	12	12	14	13	10	13	12	19	15	12	10	14	12
58 to 68 Fe	et	12	15	13	13	14	14	10	13	12	12	16	14	13	15	14
60 to 70 Fe	et	12	13	12	13	13	13	9	10	10	11	13	12	13	15	14
78 to 88 Fe-	er	18	10	19	11	10	18	8	8	8	8	9	9	13	12	13
88 to 98 Fe	et	6	5	6	6	4	5	5	4	4	5	4	5	9	7	. 8
90 to 100 Fe	et	4	3	3	3	2	3	3	2	3	4	3	3	5	4	5
above 100 Fe	es	19	7	13	10	4	7	21	8	14	27	9	18	16	6	11
Hean height Fo	eet	71	54	62	59	59	54	69	51	60	84	57	70	72	58	65

PARAHETER	YE	ARL	Y	JF	1K-11	AR	AF	R-J	אט	Jŧ	JL-SE	Р	0	CT-DI	EC
	day	n11	d&n	day	nıt	d&n	day	nit	ರಹಿಗ	day	ոււ	d&n	day	nit	d&n
% occur EL&SB dcts			3			1			5			3			4
% occur 2+ EL dcts	ļ		6	ŀ		4	ŀ		6	l		10	ŀ		7
RVG station N			344			321	l		348			375			332
AVG station -N. Lft			lő			13	ĺ		17	l		19			15
AVG sec used Kts	15	15	15	18	18	18	14	14	14	12	12	12	16	16	16

HISTORICAL PROPAGATION COMDITIONS SUMMARY IREPS REV 2.1

38 00 N 71 00 H 38 00 N 71 00 H (*) INDICATES INSUFFICIENT DATA Specified location:

Radiosonde source : 4YH

Radiosonde station height: 39 Feet

Surface obs source: MS116 35 00 H 75 00 H

ESPISAT ACCURRENCE OF ENHANCED SURFACE-TA-SURFACE RADAR ESM COM PRACES:

	CCORPERCE !		TATALLE .					_	_			<u> </u>		<u> </u>		
FREQ	UENCY	Y	EARLY	Y	Ji	AN-MA	R.	A	PR-JI	บห	Jŧ	JL-SI	EP	00	CT-DE	3.5
1		day	nit	din	day	nit	d&n	day	nit	dan	day	nit	dan	day	r t	din
108	MHZ	1	1	1	2	2	2	÷	*	*	*	+	*	1	0	
1	GHz	18	9	13	17	10	14	*	*	*	*	*	*	19	7	13
3	GHz	31	19	25	27	_19	23		*	*	#	¥	*	34	19	2.
6	GHz	66	57	62	62	54	58	*	*	*	*	*	*	71	61	55
19	GHZ	84	88	82	81	77	79	*	+	*	÷	*	*	88	S 3	65
20	GH2	90	88	89	88	_86	87	+	*	*	<u>*</u>	4	+	93	98	91

SUPERIE PASED BUCT SURMARY.

	30111	ARL'			BH-H	35		R-3	71.0				-		
PARAMETER			-	, -							リレーショ			et-di	
1	day	ni:	dan	day	nit	den	day	nit	den	day	1112	den	day	nit	den
Percent occurrence	6	- 5	5	15	:4	15	-0	8	9	9	_ 0	-0	9	4	7
AVG thickness Kft			.21			.21			×	İ		*	l		.21
AVG trap freq GHz	i		1.4			1.1	l		*	1		*	i		1.5
AVG lyr grd -N/Kft			104			99			*	<u> </u>		*	<u> </u>		109

FLEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	7	3	คห-พ	łR	Al	PR-JI	HU	31	JL S	EP	0	T-D	C
	day	z; i t	dŧn	day	nit	d&n	day	nit	d\$n	day	การ	d&r	day	nit	dan
Percent occurrence	45	53	49	49	44	42	33	50	42	50	61	5€	56	55	56
AVG top ht Kft			5.0	1		4.9	1		•			*			5.1
AVG thickness Kft			.44			.42		_	.34			.57	İ.		.45
AVG trap freq GHZ			.31	Г		.30			.47			.20			. 29
AVG lyr grd -N/Kft			62	1		63			*	•		*	l		51
AVG lyr base Kft			4.6	l		4.6	l		4.2	i		4.8	i		4.7

EVAPORATION DUCT HISTOGRAM IN PEPCENT OCCURPENCE:

PERCENT O	CCURPENCE	71	ARL	~	J	AN-M	ar.	A)	R-J	JH:	jį	JL-5E	P	30	T-DE	ic -
		dav	nit	dan	day	nit	dên	day	nit	dħn.	dau	nıt	dtn	day	nit	den
8 to 1	0 Feet	9	9	9	10	10	10	:5	14	15	7	7	7	5	-6	ç
18 to 2	0 Feet	4	6	5	5	6	5	5	7	6	4	6	5	3	5	4
20 to 3	8 Feet	_6	8	7	7	9	8	7	9	8	6	8	_ 7	5	7	6
30 to 4	3 Feet	8	11	9	18	12	11	8	11	5	7	11	. 9	7	9	_ 5
40 to 5	0 Feet	11	14	12	12	14	13	18	13	12	16	15	12	16	14	12
50 10 6	8 Feet	12	15	13	13	14	14	16	13	12	12	16	14	13	:5	11
€0 to 7	'θ Feet	12	13	12	13	13	13	9	10	10	11	13	12	13	15	14
70 to 8	0 Feet	10	16	10	11	10	18	ક	8	8	8	9	à	13	12	13
88 10 9	€ Feet	_6	5	6	6	_ 4	5	5	4	4	5	4_	_ 5	9	7	8
90 to 1	88 Feet	4	3	3	3	2	3	3	2	3	4	3	3	5	4	5
above 1	00 Feet	19	7	13	10	4	7	21	8	14	27	9	18	16	6	::
Hear her	ght Feet	71	54	62	59	50	54	69	51	60	84	57	70	72	58	65

PARAMETER	YEARLY	JAI	H-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit di	n day r	nit dan	day nit din	dau nit den	day nit don
% occur EL&SB dcts		1	2	0	8	8
% occur 2+ EL dcts		7	4	2	13	12
AVG station N	26	8	326	334	168	213
RVG station -N/Kft	1	8	12	14	5.2	7.6
AVG sfc wind Kts	15 15 1	5 18	18 18	14 14 14	12 12 12	16 16 16

Specified location: 37 51 N 75 28 H Radiosonde source : 72402 37 51 N 75 28 H

(*) INDICATES INSUFFICIENT DATA

CHES.

Radiosonde station height: 13 Feet

Surface obs source: MS116 35 00 N 75 00 W

DEDCENT OCCUPATIONS OF ENGLICED SUBSECTIONS OF EARLY SERVICES PROCESS

PERCENT OCCURPENCE C	<i>) -</i>	MAHN	<u> </u>	SUKF	HLE-	10-5	JAPAI	. 2 . 61	<u>יייער</u>	E 211	COM	KANI	3E3:		
FREQUENCY	Y	EARL'	Y	J	RH-M	BR	A	R-JI	JH	JI	<u>JL-31</u>	EP	0	CT-D	EC
	day	rit	ವಹಿ ಗ	day	nit	d&r,	day	nit	din	day	nit	d&n	day	nit	dån
189 MHz	3	2	2	1		1	3	3	3	5	4	4	2	1	1
1 GHz	27	14	20	13	7	10	38	18	24	41	22	31	22	18	16
3 GKz	38	23	31	23	15	19	49	26	33	51	31	41	37	22	30
6 GHz	67	57	62	59	51	55	64	53	59	75	62	69	72	62	67
10 GHz	84	79	81	80	76	78	78	74	76	88	84	86	88	84	86
20 GHz	89	87	88	87	85	86	84	82	83	92	90	91	93	91	6.5

SURFACE BASED DUCT SUMMARY:

PARAHETER	Y	EARL'	7	J	AH-M	RR	RI	PR-J	אט	J	JL-Si	ΕP	Õ	CT-BI	EC
	day	nít	d&n	day	nıt	d&r	day	nit	din	day	nit	d&n	day	nit	den
Percent occurrence	16	13	14	7	7	7	20	17	19	25	19	22	12	- 8	16
RVG thickness Kft	l		.38			. 27	ĺ		. 41	l		.51	Į.		.33
AVG trap freq GHz	1		.69	i		1.1	1		. 62	ļ		.37	ĺ		.73
AVG lyr grd -H/Kft			88	L		107			76			82			85

ELEVATED DUCT SUMMARY:

PARAMETER	Y	ERRL'	Y	Ji	AK-M	AR	A	7R-JI	314	J	iL-SI	EP	00	CT-DI	EC
	day	nit	đěn	day	nit	d&n	day	nit	den	day	017	den	dav	nit	d&n
Percent occurrence	20	2:	20	18	9	10	29	28	28	27	32	30	22	23	23
AVG top ht Kft	1		4.8			4.0			4.9			5.4			4.7
AVG thickness Kft			.39			. 23			.35			. 48			. 39
AYG trap freq GHz			.49			.57			.57	$\overline{}$.35			.47
AVG lyr grd -N/Kft	ŀ		58	i		68			55	1		59	l		38
AVG lyr base Kft	_		4.4			3.7			4.6			5.1	Ī		4.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OF	CCURRENCE	Y	EARL	7	J	AN-M	AR	EI	R-J	UN	JI	JL-SI	EP	0	CT-DI	EC
		day	nit	d&n	day	nit	dan	day	nit	den	day	111t	d£n	Gay	nit	den
0 to 10	8 Feet	9	ò	9	10	10	10	15	14	15	7	7	7	5	6	5
18 to 2	0 Feet	4	6	5	5	6	6	5	7	5	4	6	5	3	5	٠,
28 to 3	û Feet	ε	8	7	7	9	8	7	9	8	- 6	8	7	5	_7	6
30 to 4	8 Feet	8	11	9	10	12	11	S	11		7	11	9	7	9	8
40 to 50	B Feet	11	14	12	12	14	13	10	13	12	10	15	12	19	14	12
50 to 61	0 Feet	12	15	13	13	14	14	10	13	12	12	16	14	13	15	14
60 to 71	8 Feet	12	13	12	13	13	13	9	19	10	11	13	12	13	15	14
70 to 81	0 Feet	18	10	18	11	10	:0	8	8	8	8	9	9	13	12	13
80 to 90	0 Feet	6	5	6	6	4	5	5	4	4	5	4	5	9	7	S
98 to 10	00 Feet	4	3	3	3	2	3	3	2	3	4	3	3	5	4	5
above ii	00 Feet	19	7	13	10	4	7	21	8	14	27	9	18	16	6	11
Hean her	gh+ Feet	71	54	62	59	58	54	59	51	66	84	57	70	72	58	€5

PARAMETER	YE	ARL	,	Ji	111-151	R R	AF	R-J	UN	Ji	JL-SE	P	0	CT-DI	EC
	day	nit	din	day	nit	den	gay.	nit	den	day	nit	den	day	nit	dån
% occur EL&SB dcts			3			0			3			7			
% occur 2+ EL dcis			2			1			2			4	i		2
AVG station H			336			316			339			364			323
AVG station -N/Kft			15			12			16			19	l		14
AVG afc uind Kts	15	15	15	18	18	18	14	14	14	12	12	12	16	16	16

Specified location: 32 54 N 80 01 W (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 72208 32 54 N 80 81 H

Radiosonde station height: 43 Feet Surface obs source: MS116 35 00 N 75 00 H

PERCENT	OCCUPRENCE	OF E	HAH	CED_	SURF	ACE-	10-51	URFRI	CE RI	ADAP.	<u>∕ES∺</u>	COH	RAN	GES:		
FRE	QUENCY	Y	RRL	Y	J	คพ-พ	RR	AI	PR-JI	UN	3	UL-S	EP.	0	CT-Di	EČ
L		day	nit	d&n	day	nit	d&n	day	nit	dtn	day	nit	dtn	day	nıt	dsn
100	HHz	1	1	1	e	- 0	0	2	1	2	1	1	1	1	1	1
1	GH≡	22	9	16	11	5	8	28	11	19	30	12	21	20	ç	:5
3	GHz	33	17	25	21	12	17	37	18	27	39	19	29	_ 35	21	28
6	GHZ	65	53	59	57	49	53	61	48	54	68	56	62	71	61	- t 5
10	GHz	82	77	80	79	75	77	77	71	74	85	89	83	88	84	35
1 28	GH2	88	86	87	86	84	85	83	88	81	โจด	88	89	93	98	31

SUPPORE RASED DUCT SURMARY:

JORFFICE BUSED DOCT	3.31111	1117													
PARAMETER	Y	EARL	7	J 3	ลห-ห	9R	R	PR-31	บห	_ J(レレーちに	ΕP	00	CT-DI	žC .
	day	nit	<u>den</u>	day	nit	dtn	day	nit	_d&n	day	nit	din	day	nit	dan
Percent occurrence	8	5	- 6	3	3	3	13	- 5	_ 9	5		5	9	6	š
AVG thickness Kft			.36	ļ		. 24	1		.43	l		.42	i		.34
AVG trap freq GHz	İ		.73	l		1.2	ĺ		.46	I		. 38	İ		.83
AVG lyr grd -N/Yft	l		86			99	Ì		85	l		24	l		76

ELEVATED BUCT SUMMARY:

PARAMETER	Ϋ́	EARL'	Y	J	คพ-หเ	RP.	Ai	PR-J	JN	JI	IL-SI	43	Ö	CT-DI	EC
	day	nit	din	day	nit	din	day	nit	dŁn	day	nit	dsn	day	211	dtr.
Percent occurrence	37	32	34	28	23	26	39	35	37	33	33	36	41	37	39
AVG top ht Kft			5.2	ĺ		5.2			5.8	[4.5			5.3
AVG thickness Kft	l		.42	l		. 38			. 43			. 44			. 43
AVG trap freq GHz			.37			.44			. 32			.36			.37
AVG lyr grd -N/Kft			61	ĺ		62	i		60	Ī		60			69
AVG lyr base Ift			4.9	i		4.9			5.5			4.2			5.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PERCEN'	t occ	URRENCE	YI	ERRL'	r	J:	AH-MI	RR	P.F	P-J:	H	Ji	UL-SE	P	00	T-DE	EC
			day	nit	den	day	nit	dån	day	212	din	day	ait	ರಹಿಗ	day	nit	d\$n
8 10	0 10	Feet	9		9	18	19	19	15	14	15	7	7	7	5	6	- 6
10 to	95 c	Feet	4	6	5	5	6	6	5	7	6	4	6	5	3	5	4
20 te	39	Feet	_ 6	_ 8	_7	7	9	. 8	7	9	8	6	8	7	5	7	6
30 to	40	Feet	8	11	9	18	12	11	8	11	9	7	11	9	7	9	3
40 to	50	Feet	111	14	12	12	14	13	19	13	12	10	15	12	19	14	12
50 10	69	Feet	12	15	13	13	14	14	19	13	12	12	16	14	13	15	14
60 to	78	Feet	12	13	12	13	13	13	9	18	10	11	13	12	13	15	14
78 to	98	Feet	10	10	18	11	19	10	8	8	8	8	9	9	13	12	13
80 10	90_	Feet	_6	5	5	6	4	5	5	4	4	5	4	5	9	7	8
98 to	189	Feet	1	3	3	3	2	3	3	2	3	4	3	3	5	4	5
above	P 100	Feet	19	7	13	10	4	?	21	8	14	27	9	19	16	€	11
Hear !	ne i ah	1 Feet	71	54	62	59	58	54	69	51	60	84	57	70	72	53	45

251151115 116 501 05001															
PARAMETER	YE	HRL.	Y	31	iH-H	RR	A	P-J	ŪN	JI	JL-SI	EP.	00	CT-DE	C
	day	nit	d&n	day	211	d&n	day	nit	d&n	day	nit	đĐr	O ay	nit	den
% occur EL&SB dcts			1			9			2			1	Γ—		2
% occur 2+ EL dcts			7	1		5	1		8			ક	j		8
AVG station N			341	l		318	l		348			378	İ		328
AVG station ~H/Kft			15	i		12	i		16			16	I		14
AVG sfc wind Kis	15	15	15	18	18	18	14	14	14	12	12	12	16	16	15

Specified location:

38 28 N 86 31 H 30 28 N 86 31 H Radiosonde source : 72221

(*) INDICATES INSUFFICIENT DATA

Radiosonde station height: 95 Feet

Surface obs source: MS81 25 00 H 85 00 H

	FACERI OFFORSEN	LE UF	ENHHN	ren .	POKE	HLE-	10-50	UPFRI	LE M	HUMP	-E3F	LUH	KKK	<u>, 65.</u>		
Ţ	FREQUENCY	1	YEARL	Y	J	คห-หเ	AR	RI	PR-JI	JH	J	UL-S	EP T	0	CT-DI	EC
ı		da	y nit	dan	day	nit	d&n	day	nit	d&n	day	nit	dŁn	day	nit	den
ŗ	100 MHz		1 2	2	1	1	1	2	3	2	2		2	1	- 2	<u>_</u>
1	1 GHz	3	4 17	25	27	11	19	38	22	30	39	26	39	38	16	23
1	3 GHz	4	5 28	37	39	19	29	49	32	49	49	38	39	46	38	38
ſ	6 CHz	?	8 70	74	74	61	67	77	68	73	81	75	78	82	75	78
١	16 GHz	9	2 90	91	89	85	87	91	89	90	94	92	93	93	92	93
١	20 GHz	9	5 95	95	93	92	_ 93	95	94	95	97	97	97	96	96	96

SUPFACE BASED DUCT SUMMARY:

PARAMETER	YER	RRLY	Т-,	H-HAT	P.R	RI	PR-JI	JH	31	UL-Si	P	Ō	CT-DI	EC.
	day r	nit d&g	day	<u>nit</u>	d&n	day	nit	dan	day	nit	dŁn	day	nit	dtn
Percent occurrence	10	12 11		3 5	7	15	19	18	10	13	12	5	12	9
AVG thickness Kft		.38	\$ i		.33]		.36			.38			.45
RYG trap freq GHz		. 69)		.80	1		.77			.57			.64
AVG Tur grd -N/Kft		99	<u>. L</u>		82			88			95			138

ELEVATED DUCT SUMMARY:

PARAMETER	YI	EARL'	Y	Ji	AN-M	RR	AI	PR-JI	N	J	JL-SI	P	01	CT-DE	C
	day	nit	d&n	day	nit	dŁn	day	nit	dån	day	nıt	dtn	day	nit	dan
Percent occurrence	38	31	34	35	28	32	44	31	38	33	36	32	38	33	35
AVG top ht Kft	i		4.9	l		4.4	ļ		5.2			5.5	l		4.7
AVG thickness Kft	[.42	[.		.38	ĺ		.47	•		.38	ĺ		.44
AVG trap freq GHz			.37	i -		.46			.29			.39			.35
AVS lyr grd -N/Kft	1		61	ļ		58	l		64	i		63	Į.		60
AVG tyr base Kft	İ		4.6	1		4.1			4.8	i		5.2	l		4.4

PERCENT OCC			ARL			AN-MA			R-JI	JN	Ji	JL-SI	EP	00	T-DE	C
		day	nit	dtn	day	nit	dŁn	day	nit	dån	day	การ	đần			
6 to 10	Feet	3	2	3	5	4	5	4	3	3	2	ī	1	2	2	2
10 to 20	Feet	2	4	3	3	4	3	3	4	4	2	4	3	1	3	2
20 to 30	Feet	4	6	5	4	7	6	4	7	5	4	5	4	3	5	4
30 to 40	Feet	5	8	7	6	10	8	6	9	8	5	6	6	5	7	6
40 to 50	feet	9	14	12	10	15	13	10	15	13	و	13	11	8	12	10
50 10 60	Seet	12	18	15	12	18	15	13	13	15	13	20	16	11	16	14
68 to 78	Fees	13	16	14	13	:5	14	11	14	13	13	18	16	13	17	15
70 to 30	Feet	10	12	11	11	11	11	8	9	9	9	12	11	13	15	14
88 to 98	Feet	?	6	7	7	5	6	6	5	5	6	6	6	10	8	9
90 to 100	Feet	4	3	4	4	3	4	4	2	3	4	3	3	€	-5	- 6
above 100	Feet	39	11	20	24	8	16	32	13	23	35	13	24	27	10	19
rean height	Feet !	91	65	78	51	60	78	93	56	79	100	78	85	98	67	78

YE	BRL'	4	31	an-m	R.	A.	>≶_1	UH	J	L-SE	<u> </u>	õ	T-DE	C
day	nit	d£n	day	nit	dŁn	Gay	nit	dàn	day	211	den	day	nit	dån
		2			1			4			3			2
İ		7	1		6	i		8	1		7	l		7
		346	l		324	i		357	l		370			332
i		16	ĺ		14	ł		18	•		18	ŀ		15
12	12	12	14	13	14	12	11	11	10	16	10	14	13	13
	day	day nit	day nit din 2 7 346	day nit dan day 2 7 346	day nit din day nit 2 7 346	2 1 7 6 346 324	day nit dan day nit dan day 2 1 7 6 346 324	day nit din day nit din day nit 2 1 7 6 346 324	day nit dan day nit dan day nit dan 2 1 4 7 6 8 346 324 357	day nit dan day nit dan day nit day nit day day nit day 2 1 4 7 6 8 346 324 357	day nit dan day nit dan day nit dan day nit 2 1 4 7 6 8 346 324 357	day nit dan day nit dan day nit dan day nii dan 2 1 4 3 7 6 8 7 346 324 357 370	day nit dan day nit day nit	day nit dan day nit dan day nit dan day nit dan day nit day nit dan day nit day nit

HISTORICAL PROPAGATION CONDITIONS SUMMAPY

Specified location: 30 24 N 81 42 W (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 72206 30 24 N 81 42 N

Radiosonde station height: 30 Feet Surface obs source: MS81 25 00 N 85 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAP/ESH COM RANGES:

FREQUENCY	Y	ERRL'	Y	J	AN-MA	AR	AI	PP-JI	HL	JI	ルーSI	EP	00	CT-DE	EC
i	day	_nit	d&n	day	nit	d&n	day	n11	<u>d&n</u>	day	nit	den	day	nit	dŧn
100 MHz	1	1	1	1	. 0		2	1	1	2	1	2	1	1	
1 GHz	33	14	23	26	9	18	36	16	26	39	17	28	30	13	22
3 GHz	45	24	34	39	17	28	47	24	35	48	27	_37	47	27	37
6 GH≃	78	68	73	74	60	67	76	64	70	81	73	77	82	73	78
10 GHz	92	89	98	89	85	87	90	87	89	93	92	93	94	91	93
20 GHz	95	94	95	93	92	93	94	94	94	97	97	97	96	9€	96

SURFACE BASED DUCT SUMMARY:

IRCPS REV 2.1

PARAMETER	YE	ARL'	Y	J	คห-ห	AR	AI	R-J	אט	31	JL-SI	P	01	CT-DI	EC
	day	nit	dŁn	day	nit	d&n	day	nit	d&n	day	nit	dŁn	day	nit	dån
Percent occurrence	9	6	7	8	2	5	11	- 6	9	8	7	8	8	7	8
AVG thickness Kft	1		. 42			.30			. 47			. 53	i		.37
AVS trap freq GHz	ĺ		.80			1.2			.78			.35	l		.84
AVG lyr grd -N/Yft			122			137			138			_86			128

ELEVATED DUCT SUMMARY:

PARAMETER	Y	ERRL'	Υ	J	AN-M	RR	A	R-JI	JH	Ji	JL-SI	EP	O	CT-DE	ξC
	day	nit	den	day	nit	d£n	day	nıţ	dan	day	nıt	din	day	nit	dan
Percent occurrence	33	30	31	27	29	28	41	32	37	2€	21	24	36	36	36
AVG top ht Kft			5.3			5.4	!		5.5			5.2	İ		5.3
AVG thickness Kft			.40			.38	l		.43			. 42	l		3
AVG trap freq GHz			.44			.43			.38			.47			.48
AVG lyr grd ~N/Kft			56			58	ŀ		57	i		53	1		58
AVG lyr base ift	i		5.0			5.1	l		5.2	}		4.8	ļ		5.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCL	JRRENCE	Y	ARL	r	J	AH-M	P.R	A	PR-JI	JН	٠,	uL-SI	EP	G	CT-DE	Ξζ
			day	nit	d£n	day	nit	dan	day	nit	den	day	nit	<u>d</u> tn	day	กาะ	den
Ø to	10	Feet	3	2	3	5	4	5	4	3	3	2	1	1	2	2	2
10 to	20	Feet	2	4	3	з	4	3	3	4	4	2	4	3	1	3	2
20 to	30	Feet	4	6	_ 5	_4	7	- 6	4	7	5	4	5	4	3	5	4
36 to	40	Feet	5	8	7	6	10	8	6	9	8	5	6	- 6	5	7	- 5
48 to	50	Feet	9	14	12	10	15	13	10	15	13	9	13	11	8	12	:3
50 10	68	Feet	12	18	15	12	18	15	13	18	15	13	26	16	11	16	14
68 to	70	Feet	13	16	14	13	15	14	11	14	13	13	18	16	13	17	15
78 to	88	Feet	10	12	11	11	11	11	8	9	9	9	12	11	13	15	14
38 to	90	Feet	7	6	7	7	5	- 6	_ 6	5	5	6	_ 6	_ 6	16	8	Ģ
98 to	100	Feet	4	3	4	4	3	4	4	2	3	4	3	3	6	5	- 5
above	100	Feet	30	11	20	24	8	16	32	13	23	35	13	24	27	10	15
Hean he	ight	Feet	91	65	78	81	60	78	93	-66	79	100	78	85	98	67	78

GENERALE MEYCOMOFOCA	00				
PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit din	day nit dan	day nit din	day nit da
% occur EL&SB dcts	2	9	2	2	1
% occur 2+ EL dcts	4	4	6	4	5
RVG station N	350	326	358	375	342
AVG station -H/Kft	16	13	18	19	15
AVG sfc wind Kts	12 12 12	14 13 14	12 11 11	18 10 10	14 13 13

Specified location: 34 04 N 118 01 W (*) INDICATES INSUFFICIENT DATA

Specified location: 34 84 N 118 91 H Radiosonde source: 74784 34 84 N 118 91 H

Radiosonde station height: 302 Feet

Surface obs source: MS120 35 00 H 115 00 H

PEPCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

-EMCENI OCC	HKENLE OF EN	MANLE	<u>u :</u>	SURFE	166-1	<u> </u>	JKFML	<u>. e . e</u> .	ANUL.	, E 24	LUn	HHILL	253:		
FREQUE	ICY YE	RRLY	- 1	Jf	124-14E	1R	RF	R-Ji	JH .	J	ÜL-\$1	EP	0	CT-DI	EC
	day	nii d	٤n	Qay	nit	dan	day	nit	dtn	day	nit	dan	day	nit	d&n
100 MH2	: 1	2	1	1	3	2	1	1	1	1	2	1	*	#	*
1 GH2	: 28	16	22	33	21	27	26	12	19	27	15	21	*	*	*
3 GH2	: 33	21	27	37	28	33	29	16	23	31	19	25	. *	ŧ	*
6 GH:	46	32	39	58	40	45	44	27	35	45	28	36	*	*	*
10 GHz	72	62	67	70	64	67	72	61	66	73	61	67	÷	*	ŧ
28 GH ₂	84	81	83	82	81	82	85	82	83	86	21	83	±	*	_ +

SUPPORE RASED BUCT SUMMARY:

PARAMETER	YI	EARL'	7	3	BH-M	R.	R	R-J	JH	31	UL-SI	ΕP	O.	CT-III	EC
	day	nıt	dan	day	nit	d&n	day	nit	dķn	day	nit	d&n	day	nit	dkn
Percent occurrence	6	15	10	8	28	18	6	12	9	11	18	15	0	0	9
AYG thickness Kft	i		.27	ĺ		. 16	ļ		. 27	1		.37	l		*
AYG trap freq GHz	1		1.7	ŀ		1.8	ĺ		1.0	ĺ		2.3	•		*
AVG lyr grd -N-Kft	l		122			118	ŀ		93			155	l		*

ELEVATED DUCT SUMPARY:

PARAMETER	¥	EARL'	Y	J	คท-หเ	38	A!	R-Ji	ÜH	31	JL-SI	P	00	T-Di	EC
	day	nit	den	day	015	dan	day	nit	d&n	day	nit	d&n	day	nit	dt a
Percent occurrence	50	53	5:	26	56	41	66	64	65	73	91	82	33	Ø	17
AVG top ht kft			3.7	1		4.9	ı		3.0	l		2.5			3.8
AVG thickness Kft	L .	_	. 41			.29	[.55			.63	1		. 17
AVG trap freq GHz			.66			. 59			.2:			.15			1.7
AVG lyn gnd -N/Kft			66	l		62	Ì		72	ļ.		77			55
AVG lyr base Kfs			3.4	•		4.7)		2.7			2.6	1		3,5

EVAPORATION BUCT HISTOGRAM IN PERCENT OCCURRENCE:

		_	-																
i	FERCEN	ī	16.1	PREHCE	YE	ARLY	(Ji	AH-K	18	AF	R-31	JH	JI	JL-55	P	S.	-DE	33
١		_~_			day	nit	din	day	nit	den	day	nit	der.	385	1.72	den	Çay	nit.	75.4
-	ត្ :	c	10	Fe- ?	-9	9	9	10	10	18	9	\$	8	9	10	18	8	8	- è
	19 t	٥	26	Feet	8	13	10	9	15	12	7	12	10	7	12	10	7	12	10
j	20 1	0	30	Fog.	13	22	:7	13	21	17	14	23	19	13	23	18	11	28	15
-	30 1	0	40	Fect	15	22	18	11	18	15	17	25	21	18	24	21	14	29	17
1	40 t	0	50	Feet	11	12	12	9	: 1	មេ	12	13	13	13	12	12	10	13	12
	59 :	0	68	Feet	7	6	7	6	- 6	€	8	. 7	8	7	5	5	8	7	કો
	68 :	ō	78	Feet	4	3	4	4		4	4	3	3	7	3	3	5	3	4
i	70 t	٥	89	Feet	3	í	2	ં	3	2	3	1	2	3	1	2	3	2	2
	80 t	•	96	Feet	2	. 1	1	2	1	_ 2	2	1	1	2	1	1	3	1	2
	90 t	v	189	Feet	1	1	1		1	1	1	1	1	1	0	1	-	1	1
ı	abov	e	100	Feet	27	ıċ	18	38	12	21	23	7	15	24	9	17	36	12	21
Į	Hean	he	1951	Feet	74	49	60	79	48	63	₹3	41	55	69	43	56	81	50	65

FARAKETER	781	SEL	:	35	ii-H	RR	غذ	3 - 25	;H	Jü	L-SI	P	Q:	T-BE	:C
	day	716	den	day	nit	¿~n	20.00	n - 1	dan	day	nit	din	day	****	din
% occur ELESE dcts			8			_ 3			4			17			3
% occur 2+ EL dcts			15			4	1		19			34	1		4
AVG station N			318			312	I		325			348			296
AVG station -N/Kft	ł		14	1		10	l		16			19	l		: 1
AVG sfc wind Kis	10	11	10	10	1 I	18	11	12	12	10	13	18	9.5	10	19

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMAPY

83 81

Specified location: 33 55 N 118 24 H (*) INDICATES INSUFFICIENT DATE

Radiosonde source: 72295 33 55 N 118 24 4 Radiosonde station height: 112 Feet

Surface obs source: MS120 35 00 N 115 80 N

85

	PEPCENT (OCCUPRENCE	OF E	инам	CED :	SURF	ACE-	TO-51	URFA	Œ		ES4/	COM	RANG	SES:		
	FRE	QUENCY	Y	EARL'	Y	J	BN-MI	AR .	AI	PR-		JU	L-SE	P	C:	CT-DE	EC
			day	nit	d&n	day	nst	d&n	day	nit	u_	12	nit	den	day	nit	dan
į	100	HHz	1	3	2	9	2	1	5	2		3	- 4	2	8	4	2
	1 1	GKz	31	20	25	36	18	24	38	13	26	24	22	23	36	25	28
	3	GHz	35	24	38	34	22	28	45	17	31	27	26	27	34	31	32
	6	GHz	49	35	42	47	33	48	58	28	43	40	35	38	56	42	45
	10	GNZ	73	63	68	l 68	59	64	79	€2	70	71	64	68	75	68	7.

78 79 89 82 86 84 82

SURFACE BASED DUCT SUMMARY:

28 GHZ

PARAMETER	Y	ARL'	r	36	พ∽พ	iR	fil	2R-JI	J14	31	JL-S	EP	01	CT-D	ĒČ
	day	nit	dan	day	nit	d&n	day	nit	d&n	day	nit	dan	day	nit	_d2n
Percent occurrence	8	17	13	0	12	6	33	13	23	9	21	11	Ü	23	-:2
RVG thickness Kft			.43	t		.33			.41	l		. 56			.41
AYG trap freq GHz	i		.57			.58			.74	l		. 44	l		.54
AVG lyr and -N/Kft			100	<u> </u>		99			92	i		84			124

ELEVATED DUCT SUMNARY:

PARAMETER	Y	ERRL'	Y	Ji	ili-M	ar .	AF	R-JU	JH	30	JL-SE	ΕP	0	CT-DE	ĒČ
	day	nıt	dan	day	211	d&n	day	nit	dån	day	nit	din	day	r t	dŧn
Percent occurrence	17	46	31	В	29	15	33	52	43	33	68	51	ß	35	18
AYG top ht Kft			2.6	ł		2.5			2.9			2.4	[2.6
AVG thickness Kft	i		. 62	i		.41			. 60			. 89			.59
AVG trap freq GHz			.20			.34			.18			.89			.21
AVG lyr grd -H/Kft			67			66			69			70			62
AVG for base Kft			2.2			2.2			2.5			1.9			2.2

EMAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PEPCENT	GCCURRENCE	Ϋ́	ARL	ř .	J	คห-หล	AR .	AI	PR-JI	JN	J	LE-\$1	EP.	0	T-DE	EC .
		day	nit	dan	day	nit	Jan.	day	กเน	dan	day	nit	dir	day	nit	dûn
8 to	18 Feet	9	- 9	9	10	10	10	9	8	- 8	9	10	10	8	8	8
18 10	20 Feet	8	13	19	9	15	12	7	12	10	7	12	10	7	:2	13
28 10	38 Feet	13	22	17	13	21	17	14	23	19	13	53	18	11	20	1.
30 to	46 Feet	15	22	18	11	:3	15	17	25	21	18	24	21	14	20	17
48 10	58 Feet	11	12	12	9	11	19	12	13	13	13	12	12	10	13	12
59 10	60 Feet	7	6	7	_6	_ ∈	6	8	7	_ 8	7	5	હ	8	7_	ક
60 10	70 Feet	4	3	4	+	3	4	4	3	3	4		3	5	3	4
79 to	89 Fee:	3	1	2	3	2	2	3	ı	2	3	1	2	3	2	2
88 to	98 Feet	2	1	1	2	_1_	2	2	1_	1	2	. 1	1_	3	1	2
98 to	100 Feet	1	1	1	1	1	1	ī	1	1	1	8	1	1	1	1
above	108 Feet	27	18	18	36	12	21	23	7	15	24	9	17	39	12	2.
Mean he	igh Feet	74	45	60	79	48	63	69	41	55	69	43	56	81	50	65

PARAMETER	YE	RRL	Y	Ji	1H-11	RR	ar	R-J	JH	3:	Ju-51	Đ	01	T-DI	EC
<u> </u>	day	nit	dån	day	rit	dtn	day	nit	dtn	day	nıı	ರಕ್ಷಿಗ	dau	nıt	den
% occur ELESB dcts			3			0			3			7			1
% occur 2+ EL acts			5			2			6	ĺ		8			4
RYG station N	i		334			324	i		334			349			330
AVG station -N/Kft			19			15			19			24	i		18
AVG sic wind Kis	10	11	18	10	11	19	11	12	12	10	10	10	9.3	10	_10

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 34 07 H 119 07 H (+) INDICATES INSUFFICIENT DATA

7

Radiosonde source : 72391 34 07 N 119 07 H

Radiosonde station height: 13 Feet Surface obs source: MS120 35 00 N 115 00 W

PEPCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SUPFACE PADAR-ESM COM PANGES

PEPCENT OCCUPRENCE	OF E	инаи	CED .	SURF	<u> HűE-</u>	10-51	JP F HI	LE M	<u> 1048</u>	- 52H	f lim	PHN	<u> </u>		
FREQUENCY	Y	EARL'	Y	J	AH-M	AR .	AF	PR-J	JN	Jt	JL-SI	P	e	CT-Di	EC
!	day	nit	dan	day	nit	dan	day	nit	dŁn	day	nit	d&n	day	nit	付をり
108 MHz	5	3	4	4	2	3	2	3	3	8	5	6	6	4	5
1 GHz	40	21	31	43	18	30	31	17	24	43	22	32	46	27	36
3 GHz	47	25	36	51	22	37	36	21	29	47	24	36	52	32	42
6 GHz	59	35	47	63	34	48	49	32	41	57	32	44	65	43	54
10 GHz	79	64	71	78	60	69	74	64	69	79	62	71	83	69	76
20 CH2	88	82	85	87	79	_ 33	86	83	85	89	81	85	90	84	87

SUPFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	31	AN-MI	ar .	AF	R-JI	JH	Ji	JL-SI	EP :	e	CT-DE	EC
	day	nit	d&n	day	nit	d&n	day	nıt	dan	day	nit	den	day	nit	d&n
Percent occurrence	28	18	23	38	15	27	16	18	17	28	16	22	31	23	27
AVG thickness Kft	l		. 67	ì		. 29			. 52			1.4			.50
AVG trap freq GHz	l		.62			1.2			.64			.20			. 40
AVG lyn and -H/Kft	ı		164	l		335			119			101			100

PARAMETER	71	EARL	Y	Ji	AK-M	BR	A F	R-JI	JH	J	JL-SI	EP	00	T-DI	EC
	day	nız	d£n	day	nit	d&n	day	nıt	dtn	day	nıt	dån	day	nit	dar
Percens occurrence	57	61	59	50	36	43	48	69	59	81	76	79	50	61	5:
AVG top ht Kft	i		2.7	l		2.7	l		2.6			2.3			3.4
AVG thickness Kft	ļ		.63	l		.35			.70			1.0			.5
AVG trap freq GHz			.26			.54			.14			.08			.2
AVG lyr grd -H/Kft	l		74	l		71	i		68			88	1		70
AVG for base #ft	l		2.4	ı		2.5	1		2.1	ł		1.9	į		3.

EVAPORATION DUCT HISTOGRAM IN PEPCENT OCCURRENCE:

PERCENT O	CCURRENCE	YI	EARL'	Y	J	AH-M	AR	RI	PR-J	UH	J	UL-S	EP	00	CT-DI	EC
		day	nıt	d&n	day	n11	dan	day	nit	d&n	day	nit	den	day	nit	din
0 to 1	0 Feet	9	9	-	10	10	10	9	8	8	9	10	10	3	3	8
18 to 2	0 Feet	8	13	18	9	15	:2	7	12	10	7	12	10	7	12	10
20 to 3	3 Feet	13	22	17	13	21	17	14	23	19	13	23	18	11	20	15
30 to 4	0 Feet	15	22	18	11	18	15	17	25	21	18	24	21	14	20	17
40 to 5	0 Feet	11	12	12	9	11	10	12	13	13	13	12	12	10	13	12
50 to 6	0 Feet	7	- 6	7	6	- 6	6	8	7	8	7	5	6	8	7	8
60 to 7	0 Feet	4	3	4	4	3	4	4	3	3	4	3	3	5	3	4
78 to 8	0 Fest	3	1	2	3	2	2	3	1	2	3	1	2	3	2	2
80 10 9	0 Feet	2	1	1	2	1	2	2	1	1	_2	1	1	3	1	2
98 to 1	00 Feet	1	1	1	1	1	1	_ I	1	1	1	e	1	1	- 1	— _ī
above 1	00 Feet	27	10	18	39	12	21	23	7	15	24	9	12	30	12	21
Hean her	ghi Feet	74	45	68	79	48	63:	69	41	55	69	43	56	8:	50	65

FORBILLER	15.0	11/1	•	, ,,		nĸ		- K-3	UR	, ,,	1F - 21	E.F	יט ו	~ I ~ DI	a.C
_	day r	111	dan	day	nit	d&n	day	nit	din	day	r18	ez.	day	nit	dsn
% occur ELESE dcts			∢			3			3			7	1	_	5
% occur 2+ EL dcts			16	l		9			13			19]		22
AVG station !!			334	l		325			335			347	l		339
AVG station -N/Kft			19			15			19			27	į .		16
AVG sfc wind rts	10_	11	10	10	11	10	11	12	12	10	10	10	9.3	19	10

HISTOPICAL PROPAGATION CONDITIONS SUMMAP.

Specified location: 32 49 N 117 07 W (*) INDICATES INSUFFICIENT DATA

Radiosonde source: 72290 32 49 N 117 07 W Radiosonde station height: 407 Feet Surface obs source: MS120 35 08 N 115 00 W

PEDCENT ACCUIPMENCE OF ENHANCED SUPERICATO-SUPERICA DATED SON CON DOLLES.

PERCENT OCCURRENCE	UF E	MANK	LED.	SUFF	ULE-	10-31	UFFR		TURP	E 511	CON	FRA	uE > :		
FREQUENCY	Y	EARL'	Y	J	RH-M	AR	BI	- R-JI	JH	Jt	JL-SI	ĒP	01	CT-DE	EC
t	day	nıt	dan	day	nit	dŧn	day	nit	d&r	day	nit	d&n	day	nit	dan
100 MHz	3	3	3	2	3	3	3	2	2	5	3	4	3	4	3
1 GHz	37	21	29	37	24	30	31	13	22	48	21	31	39	25	<i>±</i> 2
3 GHz	43	26	35	_43	30	37	38	17	27	47	26	36	46	32	34
6 GHz	56	37	47	55	42	48	52	28	40	58	34	46	60	44	52
10 GHz	77	65	71	73	65	69	76	62	69	89	64	72	80	69	75
28 GHz	87	83	85	84	81	83	87	82	85	89	82	86	89	85	27

SUPERCE RASER BUCT SUMMARY.

IREPS REV 2.1

PARAMETER	YI	EARL'	Υ	J	RH-M	AR	8F	R-JI	JN	J	JL-51	P	00	CT-DI	EC
	day	nit	dån	day	nit	d&n	day	nit	den	da	011	den	day	nit	dr n
Percent occurrence	25	22	23	18	26	22	24	15	20	33	21	27	23	27	-25
AVG thickness Kft			. 44			.23			.40			.78			.38
AVG trap freq GHz			.89	l		.86	i		1.4			. 55	Ì		.78
AVG lyn and -N/Kft			91			88			98			94			G 3

ELEVATED DUCT SUMMARY:

ELETHIED DUCT SUMMI	• • •														
PARAMETER	۲.	EARL'	Y	J	AH-M	ar .	AI	25-JI	ŲH	"	JL-SE	P	00	CT-D	EC
	day	nit	₫&n	day	nit	dan	day	PIT	den	42	n11	d‡n	dav	nit	din
Percent occurrence	42	54	48	28	38	33	47	65	5€	5€	73	64	37	41	39
AVG top ht Kft	ŀ		2.5			2.7	l		2.6	l		2.2	ł		2.6
AVG thickness Kft			.68			.42			.64			.78	l		.56
AVG trap freq GHz			.20			.30			.18			.11			.21
AVG lyr grd -N/Kft			78	ŀ		72	i	-	71			68			71
AVG lyr base ift	l		2.2			2.5	l		2.2			1.7			2.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCI	JRRENCE	YI	ARL	?	J	AH-M	ar .	RI	PR-J	UN	31	UL-S	EP	00	T-DE	C
			day	การ	den	day	nıt	d&n	day	nıt	d&n	da-	nit	dtr	day	nit	dt n
e to	10	Feet	9	\$	9	10	18	10	9	8	8	9	:0	10	8	8	3
10 to	20	Feet	8	13	18	9	15	12	7	12	10	7	12	10	7	12	10
28 to	30	Feet	13	22	17	13	21	17	14	23	19	_13	5.3	18	11	28	15
30 to	40	Feet	15	22	18	11	18	15	17	25	21	18	24	21	14	20	17
40 to	58	Feet	11	12	12	9	11	10	12	13	13	13	12	12	10	13	1.5
50 to	69	F∈et	_ 7	6	7	6	6	6	8	. 7	છ	7	5	6	8	7	ਝ
68 to	70	Feet	4	3	4	4	3	4	4	3	3	4	3	3	5	3	4
70 to	80	Feet	3	1	2	3	2	2	3	1	2	3	1	2	3	2	2
80 10	90	Feet	2	1	1	_ 2	1	_ 2	2	1	1	2	1	1	3	1	2
98 to	180	Feet	1	1	1	1	1	1	1	1	1	1	9	1	1	1	1
above	100	Feet	27	19	18	38	12	21	23	7	15	24	9	17	30	12	۷1
Hean he	ight	Feet	74	45	60	79	48	63	69	41	55	69	43	56	81	56	+5

GENESAL KETEOPOLOGY SHUMARY:

GENERAL HETEOROFOR	3011110111				
PARAMETER	YEARLY	JAN-HAR	APFJUN	JUL-SEP	OCT-DEC
L		day nii dan	day nit din	dan nit din	dar nit den
% occur EL&SB dets	4	3	5	6	3
% occur 2+ EL dcts	8	4	9	14	6
AVG station N	338	321	329	343	326
AVG station -N/Fft	19	16	20	24	18
AVG sfc wind Kts	10 11 10	10 11 10	11 12 12	10 10 10	4.3 10 10

Specified location:

(*) INDICATES INSUFFICIENT DATA

33 15 N 119 27 W

33 15 H 119 27 H Radiosonde source: 72291

Padrosonde station height: 502 Feet

Surface obs source: MSI20 35 00 N 115 00 W

PEDIENT OCCUPPENCE OF ENHANCED SUPERIF-TO-SUPERIF PADAP ESM JOM RANGES:

LERCEIII OFFOREHER I	J' L'	111111111		<u> </u>			20.1.11					1			
FREQUENCY	Y	EARL	Y	J	AN-MI	AR .	RI RI	R-J	JH	31	JL-SE	EP	01	CT-DE	EC
	day	nıt	d&n	day	nit	d&n	day	nıt	d&n	day	nít	din	day	nit	d? n
100 MHz	8	8	8	6	6	6	5	5	5	13	12	13	8	7	8
1 GHz	48	34	41	48	32	46	37	24	31	56	4€	51	51	35	13
3 GHz	55	41	48	55	39	47	43	31	37	63	52	58	59	41	50
6 GHz	66	50	58	56	49	58	56	40	48	71	58	64	70	52	61
18 GHz	82	72	77	89	69	75	78	68	73	86	77	81	85	74	79
28 GHz	90	86	88	88	84	86	88	85	87	92	88	90	91	86	89

SURFACE BASED DUCT SUMMARY:

PARAMETEP	YE	ARLY	7	J	AN-MA	R	AF	R-J(JN	JI	JL-SE	P	0	CT-D!	EC
_	day	nit	d&n	day	nıt	d&n	day	nit	děn	day	nit	d&n	day	nit	dt n
Percent occurrence	39	37	38	38	35	37	26	28	27	51	48	50	41	35	38
AVG thickness Kft	ŀ		. 48			.38			. 50			.60	l		. 44
AYG trap freq GHz			.40			.52			.46	İ		. 25			.38
AVG lyr and -N/Yft	i		97			97			96			96			97

PARAMETER	Y	EARL'	r	Jf	M-HF	aR	AF	R-JU	J14	J	JL-SE	P	00	T-DE	EC
	day	nıt	d&n	day	nıt	d&n	day	nit	ಡರಿಗ	day	nit	din	day	nı <u>t</u>	dan
Percent occurrence	38	39	38	30	32	31	45	46	46	42	49	41	34	36	- 35
AVG top ht Kft			2.2			2.2	Ì		2.1	Ì		1.8			2.5
AVG thickness Ift		_	.52	L_		.40	l		.53			.68			. 49
AVG trap freq GHz			.27			.38			.23			.15			.33
AVG lyr and -N/Kft			67			62	l		75			66			67
AVG lyr base Kft			1.8			2.6	l		1.8	l		1.3			2.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	900	URRENCE	Y	ARL	Y	J	AN-M	ar .	AI	R-J	หม	.71	iL-Si	Ε'n	00	CT-DI	EC
			day	n11	dtn	day	nit	den	day	nit	den	day	nit	d&n	day	nit	d&n
8 to	10	Feet	9	9	- 9	10	10	16	9	8	8	9	10	10	8	8	8
10 10	20	Feet	8	13	10	9	15	12	7	12	10	7	12	10	?	12	10
20 10	30	Feet	13	22	17	13	21	17	14	23	19	13	23	18	11	20	15
30 to	40	Feet	15	22	18	11	18	15	17	25	21	18	24	21	14	20	17
46 to	50	Feet	11	12	12	9	11	10	12	13	13	13	12	12	10	15	12
50 to	60	Feet	7	6	7	6	6	6	8	7	- 8	7	5	6	ε	?	8
68 to	78	Feet	1	3	4	4	3	4	4	3	3	4	3	3	5	3	4
70 to	80	Feet	3	1	2	3	2	2	3	1	2	3	1	2	3	2	2
88 10	98	Feet	2	1	1	2	1	2	2	1	1	2	1	1	3	1	2
90 to	100	Feet	1	i	1	1	1	1	1	1	1	1	0	1	i	1	1
above	100	Feet	27	16	18	30	12	21	23	7	15	24	9	17	39	12	21
nean he	e i gh	t Feet	74	45	60	79	48	63	69	41	55	69	43	56	81	50	65

PARAMETER	YE	RRL'	Υ —	35	M-116	AR	AF	R-J	ИN	Ji	JL-S	EP	00	T-DE	:c
	day	nst	den	day	nit	d&n	day	nit	dån	day	nit	den	da	nı*	dt n
% occur EL&SB dcts			. 5			4			4			7			3
% occur 2+ EL dcts			5	ļ		4			4	l		6	ĺ		?
AVG station N			326	l		319			324	ŀ		335	i		326
AVG station -N/Kft			19	l		17	l		19	ŀ		23			18
AVG sfc wind Kts	10	11	18	16	11	19	11	12	12	10	10	10	9.3	10	10

HISTOPICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 37 43 N 122 12 N (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 72493 37 43 N 122 12 W 20 Feet

Radiosonde station height: Surface obs source: MS121 35 00 H 125 00 H

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANCES:

F CRCE II	OCCONTRACE	<u> </u>			-	<u> </u>				120.00	<u> </u>			<u> ,, , , , , , , , , , , , , , , , , , </u>	_	
FRE	QUENCY	Y	EARL'	Y	JI	IM-KIF	AR .	_ A!	PR-J	ÚH	J!	JL-SI	EP	0.0	CT-DI	EC
		day	nit	<u>då</u> n	day	nit	dan	day	nit	d&n	day	nit	dan	day	nit	den
168	MHZ	2	1	1	1	1	ī	2	1	2	4	1	2	1	1	- 1
1 1	GH2	1:9	6	13	14	5	9	20	5	12	29	7	18	15	7	11
1 3	3 GHz	24	8	16	17	7	12	25	7	16	36	9	23	19	10	14
	GH2	39	19	29	31	16	24	48	16	28	47	19	33	37	23	38
10	GHZ	64	51	58	59	47	53	65	51	58	67	51	59	66	56	6:
26	GHz	78	72	75	75	69	72	78	73	75	78	71	74	88	75	77

CUDEACE PASED BUCT CUMMARY.

IREPS REV 2.1

PARAMETER	Y	ARL'	r -	Ji	BH-M	ar _	AF	PR-JI	JN	31	JL-SE	EF	00	T-DE	C
	day	nıt	din	day	nit	d&n	day	nit	d&n	day	ret t	dŧn	day	n:t	dtn
Percent occurrence	15	6	19	8	5	7	18	6	12	27	- 5	16	6	8	7
AVG thickness Kft			. 34	l		.28			. 34			. 42			. 32
AYG trap freq GHz			1.0			1.1	i		1.0			.62	Ì		1.4
AVG lyr and -H/Kft	İ		88			89	ĺ		104			72			88

PARAHETER		EARL'			AH-MI			P-31			JL-SI			CT-DE	
	day	การ	d&n	day	n**	d&n	day	nıt	<u>d&n</u>	day	nit	<u>d</u> ar	day	nıt	den
Percent occurrence	24	43	34	15	29	22	25	44	35	35	69	52	21	30	26
AVG top ht Kft			2.9	İ		3.8	i		2.3]		2.2	1		3.4
AVG thickness Kft		_	. 52			. 36	ŀ		.50			.78	•		.42
AVG trap freq GHz			.33			. 56			.38			.14			. 39
AVG lyr grd -N/Kft			61			59	i		62	ĺ		65			57
AVG lyr base Kft	i		2.6	l		3.5	Ī		2.0	ŀ		1.7	i		3.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PERCENT OCCUR	RENCE	YE	ARLY	,	Ji	in-M	ìR	Af	R-J1)H	J	JL-SI	P	00	T-DE	C
		iay_	nit_	<u>d&n</u>	day	nii	d&n	day	การ	d‡n	day	rit	den	đảy	กาะ	ರ್ಷ ∵
0 to 18 F	eet	15	14	15	15	15	15	15	13	14	18	16	17	13	13	13
10 to 20 F	eet	11	15	13	13	:7	15	11	16	13	12	15	13	9	14	12
20 to 30 F	eet	15	22	19	17	23	20	16	23	19	15	21	18	14	21	18
30 to 40 F	eet	16	20	18	17	20	18	16	22	19	14	28	17	16	20	เริ
40 to 50 F	eet	13	13	13	13	12	12	12	14	13	11	13	12	14	14	:4
58 to 68 F	eet	8	7	_ 7	8	6	7	8	_ 6	7	7	6	?	18	- 8	9
68 to 70 F	eet	4	2	3	4	2	3	4	2	3	4	- 2	3	6	4	5
78 to 88 F	eet	3	1	2	2	1	2	3	1	2	3	1	2	3	2	2
80 to 90 F	eet	2_	1	_ 1	1	1	1	2	1_	1	2	1	_ 1	2	1	_ 1
90 to 100 F	eet	1	8	1	1	9	1	1	8	1	1	1	ī	1	1	1
above 100 F	eet	12	3	8	19	3	7	12	2	7	15	4	10	13	4	3
Mean height	Feet	49	34_	42	45	32	39	48	33	48	51	35	43	53	36	45

PARAMETER	YE	ARL	Υ	Jí	14-14	AR T	AF	R-J	NH	31	IL-51	EΡ	06	T-DI	EC
	day	nit	dŧn	day	nit	dån	day	nit	dån	day	211	dtn	day	nit	dan
% occur EL&SR dcts			1			:			1			2	Γ		e
% occur 2+ EL acts			3	i		1	ĺ		3			4			3
AVG station N			329			323	İ		327			336			328
AVG station -N/Kft			18	ł		14			18			23			16
AVG sfc wind Kts	15	15	15	15	15	15	• 7_	16	6	14	14	14	14	14	14

(*) INDICATES INSUFFICIENT DATA 34 45 N 120 34 H Specified location: Radiosonde source : 72393 34 45 N 128 34 W

Radiosonde station height: 328 Feet

Surface obs source: MS121 35 00 N 125 00 W

FERCENT (OCCURFENCE	OF EI	HAN	CED S	SUFFI	RCE-	<u> 10-51</u>	<u> Jafri</u>	CE R	ADAR	ESH	COM	Phi	CES:		
FRE	QUENCY	71	ARL	۲	30	ลห−หค	ir 🦳	AI	PR-Ji	JN	J	UL-S!	EP	0	CT-DI	EC
		day	n11	d\$n	day	nıt	d&n	day	กาใ	din	day	nit	d&n	day	nit	dan
100	MHz	2	2	2	2	2	2	2	1	1	3	2	2	3	2	2
1	GHz	21	9	15	18	10	14	19	5	12	24	11	17	22	11	17
_ 3	GHZ	26	12	19	23	13	18	24	7	16	30	14	22	23	15	22
6	GHZ	41	23	32	36	22	29	39	16	28	43	24	33	46	25	37
10	GHZ	65	54	59	62	51	56	64	51	57	64	54	59	71	59	65
20	GHz	78	74	76	77	71	74	78	73	?5	76	73	<u>7</u> 5	83	_77	88

SURFACE BASED BUCT SUMMARY:

PARAMETER	YE	ARLY	?	31	H-M	38	AF	P-3	UN	31	UL-5	P	00	CT-D	EC
!	day	nit	d&n	day	ភារដ	d&n	day	nıt	din	day	nit	d&n	day	nit	dŧn
Percent occurrence	19	12	15	15	12	14	17	6	12	22	14	18	21	15	18
AVG thickness Kft	j		. 40]		. 35	!		. 34	1		. 57	i		.35
AVG trap freq GH2			1.6	i		. 66	ł		1.2			1.2	1		.86
AMG lyr grd -N/Kft	L		100			100			141			81	<u> </u>		?9

E EVATED DUCT SUMMARY:

PARAMETER		EARL	7	31	H-HP	aR .	A	R-31	UN	31	JL - S!	P	G	T-D	EC
	day	nit	dŧn	day	nit	dan	day	nit	d≎n	day	Sit	d&n	day	nit	dan
Percent occurrence	35	42	38	23	28	26	41	48	45	49	50	55	27	31	29
AVG top ht Kft			2.3	}		2.7)		2.1	İ		2.0)		2.5
AUG thickness Kft	L_		. 53			. 35			.52			.78			.46
AVG trap freq GH2			.35		•	.55			.28			.12			. +2
AVG lyr grd -H/Kft	1		62	ł		59	1		61	İ		68	1		59
AVG for base ift	L		1.9	<u> </u>		2.4	<u> </u>		1.7			1.5			2.1

AMMORBITON BOCK MIZ			FAFF	NI U	LLUP	ENCE	::							
PERCENT OCCURRENCE	YEARL	Y .	J:	AH-M	BR	A.	PR-31	H	31	UL-SI	EP -	00	CT-DI	EC
	day nit	den	day	rit	důn	day	nit	487	day	nit	dûn	day	nit	d&n
0 to 10 Feet	15 14	15	15	15	15	15	13	14	18	16	17	13	13	13
10 to 20 Feet	11 15	13	13	17	15	11	16	13	12	15	13	9	14	12
20 to 20 Feet	15 22	_ 19	17	23	26	16	23	19	15	21	18	14	21	18
30 10 40 Feet	16 26	18	17	20	18	16	22	19	14	20	17	16	28	18
40 to 50 Feet	13 13	13	13	12	12	12	14	13	11	13	12	14	14	14
50 to 60 Feet	8 7	7	(8	6		8	- 6	7	7	6	. 7	19	. 8	9
50 to 70 Feet	4 2	3	1 4	2	3	4	5	3	4	2	3	6	4	5
70 to 90 Feet	3 1	2	2	1	2	3	1	2	3	1	2	1 3	2	2
80 10 90 Feet	2 1	_ 1	1	1	1	2	. 1	1	2	1	1	2	1	1
90 to 100 Feet	1 (1	1	૯	1	1	0	1	1	1	1	1	1	1
above 100 Feet	12 3	8	10	3	7	12	2	7	15	4	10	13	4	9
Mear height Feet	49 34	42	45	32	39	48	33	40	51	35	43	53	36	45

PARAMETEP	YE	APLY	7	Ji	AN-M	AR.	R:	R-J	J#I	J	JL-51	P	00	T-9!	EC
	da	DIT	dŧn	dav	nit	din	day	GIL	d&n	day	nit	din	day	215	A3D
% occur EL&SE dcts			2			1			2	i –		4			- 2
% occur 2+ EL dets			5			2			5	1		7	ĺ		3
AVG station N			328	ĺ		322	i		327	ı		336			325
AVG station -H/Kft			19			16			19	1		23			1.7
AVG afe wind Kis	15	15	15	15	15	15	17	16	16	14	14	14	1-	14	14

IREPS REV 2.1 HISTORICAL PROPAGATION COMDITIONS SUMMARY

Specified location: 35 00 N 135 00 W (*) INDICATES INSUFFICIENT DATA Padiosonde source: 4YN 30 00 N 140 00 W

Radiosonde station height: 39 Feet

Surface obs source: MS122 35 00 N 135 00 H

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/FSM/COM RANGES:

CACELLY OF	CORKETTOE	<u> </u>		<u> </u>	<u> </u>		<u>, , , , , , , , , , , , , , , , , , , </u>			197111				<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		
FREQU	JENCY	Y	EARL'	Υ	7	AN-H	38	Al	PR-J	JN	Jŧ	JL-SI	4	O	CT-DE	EC
Ĺ		day	nit	d&n	day	nit	dån	day	<u>ni</u> t	d&n	day	nit	dan	day	nit	dt 1
100	Hz.	3	0	2	3	1	- 2	2	1	1	3	- 6	2	1	- 0	1
1 (Hz	27	6	16	22	5	13	28	ε	17	38	7	23	20	4	12
3 (Hz	33	8	21	28	7	17	34	8	21	46	10	28	27	7	17
6.0	Hz	55	27	41	47	23	35	52	22	37	56	32	49	54	32	43
19 (Hz	89	67	73	74	61	68	77	63	78	86	72	79	81	72	76
28 0	:Hz	89	84	86	85	88	82	87	82	84	92	87	98	98	85	38

SURFACE BASED DUCT SUMMARY:

PARAHETER	YEARL'	r	J	AH-HI	ìR	A	-R-J!	JN	31	JL-\$1	P	00	CT-DE	EC
	day nit	d&r	day	nit	_d&n	day	nit	den	day	nit	dŁn	0.20	nit	dtn
Percent occurrence	20 3	12	22	- 5	14	17	4	11	25		14	15	2	
AVG thickness Kft	ĺ	.36	•		.29	1		.36	ŀ		.45			. 33
AYG trap freq GHz		1.0	1		.81	i		.75	İ		.82	1		1.7
RVG lyr grd -N/Kft		115	ĺ		67	ı		88			149	i		157

ELEVATED DUCT SURMARY:

PARAMETER	71	ERRL'	Υ	7	AN-H	AP.	AI	PR-J	אט	Ji	リヒー\$8	P	00	T-D	EC
	day	nit	d&n	day	กเเ	d&n	day	r. 1 t	ರಹಿನ	day	nit	dan	day	nit	din
Percent occurrence	47	66	57	33	57	48	51	67	59	53	68	61	47	71	59
AVG top ht Kft	Ì		5.2			5.2	!		5.0			5.5			5.3
AVG thickness Kft			.61	i		. 57			.59			. 66			.63
AVG trap freq GHz			.18			.20			.18			.16			.18
AYG lyr grd -4/Kft	ł		68	i		€6			69	İ		71			68
AVG lyr base Kft			4.9	l		4.8			4.7			5.1			4.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENC	E Y	EARL	Υ	J	าห-หล	3R	RF	R-J:	H	J	UL-SI	EP T	00	T-DE	EC
	day	nit	d&n	day	nıt	d&r	day	nit	dan	Cay	712	d&n	day	nit	dtn
8 to 18 Feet	8	7	7	10	- 5	10	9	7	8	ő	5	5	6	-6	9
18 to 28 Feet	7	10	8	9	11	10	7	11	9	j 5	3	5	6	8	7
28 to 39 Feet	<u> </u>	17	14	14	19	16	_ 11	19	15	<u> </u> 8	15	12	10	14	12
30 to 48 Feet	14	22	18	17	22	20	14	24	19	11	21	16	13	19	16
40 to 50 Feet	15	56	17	16	18	17	15	19	17	14	21	17	16	21	19
50 to 60 Feet	12	12	13	12	10	11	11	10	16	<u> 11</u>	13	12	_ 1 →	15	14
68 to 78 Feet	7	5	6	6	4	5	6	3	4	8	6	7	10	8	9
70 to 80 Feet	1 4	2	3	4	2	3	3	1	2	5	3	4	6	3	5
88 to 98 Feet	. 2	1	2	2	1	1	2	1	1	Ìз	1	2	3	2	2
98 to 108 Feet	7 2	e	1	1	0	1	1	0	i	2	1	1	2	Ø	1
above 100 Feet	1 18	4	11	11	2	7	26	4	12	28	6	17	15	4	9
Mean height Feet	1 5€	43	54	51	38	44	67	40	53	82	49	65	63	45	34

PARAMETER	YEARLY	JAN-MAR	APR-JUH	JUL-SEP	OCT-DEC
	cay nit dan	day nit dan	day nit din	day nit din	day nit dan i
% occur EL&SB dcts	4	3	5	6	2
% occur 2+ EL dcts	5	3	4	7	5
AVG station N	346	339	342	355	346
AVG station -N/Kft	15	15	15	17	16
AVG sfc wind Kts	14 13 14	16 16 15	14 13 13	12 12 12	15 14 15

(*) INDICATES INSUFFICIENT DATA 30 00 N 140 00 H Specified location: Radiosonde source : 4YN 30 00 N 140 00 H

Radiosonde station height: 39 Feet 135 08 H Surface obs source: HS122 35 00 N

DESCRIPT ACCURRANCE OF ENGANCES CURRENCE-TA-CURERCE RADAR FCM. COM PRINCES

PEPLENI	DECUPPENCE	UP E	инни	CED :	SURF	HLE-	10-2	U77 M	LE K	אמעמ	Ean	<u> </u>	Phi	6235	_	
FRE	QUENCY	Y	EARL	Y	J	AH-HI	ar i	Af	PR-J	UN	J	ひしーちに	E6	0	CT-PI	EC
l		day	nit	d≩n	day	nit	d&n	day	nıt	d&n	day	nıt	<u>d&n</u>	day	nit	<u>d</u> &n
100	HHz	3	e	2	3	1	2	2	1	1	3	6	5	1	0	1
1 1	GHz	27	6	16	22	5	13	28	6	17	38	7	23	20	4	12
	3 GHz	33	8	21	28	7	_17	_34	8	21	46	10	28	27	7	17
(GH2	55	27	41	47	23	35	52	22	37	66	32	49	54	32	43
16	3 GHz	88	67	73	74	61	68	77	63	70	8€	72	79	81	72	76
20	GHz .	89	84	86	85	88	82	87	82	84	92	27	99	90	85	88

PARAMETER	YI	ARL'	Y	J	BH-M	AR	R	R-J	UH	J	JL-\$	P	- 60	CT-DI	EC
	day	nıt	d&n	day	nıt	d&n	day	nit	d&n	day	nst	d&n	day	nit	dan
Percent occurrence	20	3	12	22	5	14	17	4	11	25	2	14	15	2	9
AYG thickness Kft			.36	l		.29	•		.36			. 45	ł		.33
AVG trap freg GHz	!		1.9	į		.81			. 75			.82	ļ .		1.7
AVG lyr and -N/Yft	i		115	!		67			88	ł		149	ļ		157

€:

E

PARAMETER	Y	EARL'	r	Ji	H-KF	38	Al	R-JI	JH	7.	JĽ-ŠI	P	00	CT-DE	EC
	day	nit	dan	day	nit	d&n	day	nít	d&n	ysb	nit	din	day	nit	đin
Percent occurrence	47	66	57	38	57	48	51	67	59	53	68	61	47	71	59
AVC top ht Kft			5.2			5.2	ł		5,9	ĺ		5.5			5.3
AVG thickness Kft			.61	<u> </u>		.57	L	_	.39	ŀ		.66	l		.63
AVG trap freq GHz	i		. 18			.20			. 18			.16			.18
AVG lyr grd -N/Kft			68	ŀ		65	l		69	ļ		71	ļ		68
AVG lyr base Kft	i		4.9	1		4.8	1		4.7	l		5.:	ļ		4.9

EVAPOPATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCI	JRRENCE	Y	RRL	1	3	RH-M	AR .	BI	PR-JI	JH	J	JL-S	P	01	T-DE	C
			day	n12	d&n	day	nit	d&n	day	nit	den	day	nit	d⊊n	day	nit	dtn
0 to	10	Feet	8	7	7	10	9	10	9	7	- 8	6	5	5	6	- 6	6
10 10	20	Feet	7	10	8	9	11	19	7	11	9	5	8	5	6	8	7
20 10	38	Feet	11	17	14	14	19	i6	11	19	15	8	15	12	19	14	12
30 to	46	Feet	14	22	18	17	55	20	14	24	19	11	21	16	13	19	ī,
48 to	50	Feet	15	20	:7	15	18	17	15	19	17	14	21	17	16	21	19
58 to	60	Feet	12	12	12	12	10	1:	11	10	16	11	13	12	14	15	14
60 to	70	Feet	7	5	6	6	4	5	6	3	4	8	6	7	10	8	- 9
78 to	80	Feet	4	2	3	4	2	3	3	1	2	5	3	4	6	3	5
80 10	90	Feet	2	1	_2	2	1	1	2	1	1	3	1	2	3	2	2
93 69	100	Feet	2	0	1	1	6	1	1	9	1	2	ī	1	2	Ð	1
above	190	Feet	18	4	11	11	2	7	20	4	12	28	6	17	15	4	5
Hean he	ght	Feet	66	43	54	51	38	44	67	40	53	82	48	65	63	45	54

PARAMETER	Y	EARL'	Y	3	RN-M	AR	N.F	R-JI	1);	Jl	JL-SE	EP _	0	T-D	EC
	day	การ	din	day	nit	dîn	day	nst	d&n	day	nit	dŁn	day	nit	din
% occur EL&SB dcts			4	i		3			5			6			2
% occur 2+ EL dcis			5	ì		3	1		4	1		7	İ		5
AVG station H			346	ĺ		339	l		342	l		355	l		346
AVG station -N/Kft			15	1		15			15	J		17	}		16
AVG sfc wind Kts	14	13	14	16	16	16	14	13	13	12	12	12	15	14	15

TREPS REV 2.1 #ISTORICAL PROPAGATION CONDITIONS SUMMARY

35 88 N 155 88 W (*) INDICATES INSUFFICIENT DATA Specified location:

Radiosonde source: 91165 21 58 N 159 21 W Radiosonde station height: 1!8 Feet Surface obs source: MS124 35 00 N 155 00 W

PERCENT OCCUPPENCE OF ENHANCED SUPFACE-TO-SURFACE PADAR ESM COM RANGES:

Cherit Account	<u> </u>					· · · · ·							<u> </u>		
FREQUENCY	Y	ERRL'	Y	J	AN-M	AR	A	PR-JI	אט	JI	JL-SE	P	01	T-DE	ĖC
	day	nit	d&n	day	nit	dan	day	nit	den	day	nit	dan	day	nit	dt n
100 HHz	7		4	6	1	3	7	1	-4	8	- 0	4	8		4
1 GHz	38	7	22	29	4	17	38	7	23	49	9	29	36	6	21
3 GHz	48	9	28	38	6	22	46	. 9	28	58	12	35	48	16	29
6 GHz	64	31	47	54	24	39	59	22	48	74	39	57	68	38	53
10 GHz	89	64	72	75	57	66	75	54	64	87	73	88	84	78	77
20 GHz	87	78	83	84	73	79	82	71	77	92	86	89	90	82	٤٤

CHARACE BOCER BUCK CHMMASY.

PARAMETER	Ÿ	EUST.	Υ'	Ji	ลห-หเ	AR	Al	R-J	ÚΝ	J	JL-\$I	P	00	T-DE	EC
	day	nit	d&n	day	nit	dan	day	nit	dan	day	nít	den	dev	nit	den
Percent occurrence	41	4	22	37	4	21	38	4	21	43	- 2	23	45	5	∠5
AVG thickness Kft	ľ		.37	1		.34	i		.40			.39			.35
AVG trap freq GHz			.51	1		.69	ł		. 50			. 41			.54
AVG lyr grd -N/Kft			€7	i	_	67			67	l		71			64

ELEVATED DUCT SUMMARY:

PARAMETER	YI	EARL'	Ţ	J	H-HI	18	Ai	R-J	314	31	JL-SI	P	00	T-DE	:c -
	day	nit	den	day	nit	đèn	day	nit	dan	day	nit	địn	day	nit	dkn
Percent occurrence	43	64	53	40	50	59	42	66	54	48	69	59	40	60	58
AVG top ht Kft			6.6	l		6.4			6.5			6.7	j		6.7
9VG thickness Kft	L		.52			.52	l		.53			. 54	.		.51
AVG trap freq GH2			.26			.26			.26			.26			. 28
AVG lyr grd -N/Kft			61	I		51			65	i		61			58
AVG lyr base ift			6.2	Ĺ		6.8	ì		6.2	į		6.3	I _		6.3

EVAPORATION DUCT HISTOGRAM IN PEPCENT OCCURRENCE:

PERCENT	OCCUPRENCE	T	ERRL'	Y	J	ทะ-หเ	RR T	91	PR-JI	11.	- 3	ひしー ちも	P	ŏ	T-DE	۲
		day	nit	din	day	nit	dŁn	day	n:t	dŁn	day	nit	ರಸ್ಥ	day	nit	df n
8 10	10 Feet	13	12	13	16	15	15	19	17	18	Q,	7	8	19	9	10
18 to	20 Feet	8	19	9	10	12	11	9	13	11	5	8	7	?	3	8
20 10	30 Feet	11	15	13	13	17	15	12	18	15	ક	13	11	10	13	12
30 10	40 Feet	13	17	15	16	18	17	12	19	16	19	16	13	13	16	15
40 to	50 Feet	13	16	15	14	16	15	12	14	13	12	18	15	15	:8	16
50 10	60 Fee1	11	12	11	11	1 î	11	8	_ 8	6	11	:5	13	13	15	14
69 10	70 Feet	?	6	7	6	5	6	5	3	4	7	8	ε	10	9	9
70 to	80 Fest	4	3	4	3	2	3	3	2	2	S	5	5	5	5	5
80 10	98 Feet	_ 3	1	2	2	1	1	2	1_	1	4	2	3	4	2	3
98 to	100 Feet	2	1	1	1	1	1	1	- 1	1	2	:	2	2	1	2
above	100 Feet	16	4	18	8	2	5	17	5	11	26	7	17	11	3	7
Hean he	ight Feet	59	41	58	45	35	46	37	37	47	79	_58	64	55	44	ڊن

PARAMETER	YEARLY	Jan-Mar	APP-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nie dan	day nit dan	day nit din	day mit den
% occur EL&SB dcts	8	6	9	8	10
% occur 2+ EL dcts	18	6	9	13	10
RVG station N	352	354	362	367	364
AVG station -N/Kft	17	16	17	17	17
AVG afc wind Kts	16 15 15	19 18 18	14 13 13	13 12 12	18 17 18

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HISTORICAL PROPAGATION CONDITIONS SUMMARY

(*) INDICATES INSUFFICIENT DATA Specified location: 35 00 N 165 00 H Radiosonde source : 91066 28 13 N 177 22 H

Radiosonde station height: 0 Feet

Surface obs source: MS125 35 80 N 165 80 H

DEDCENT OCCUPRENCE OF ENGAGES CUREACE_TO_CUREACE PARAD FOR CAN DANCES.

PERCENT OF	CCORPENCE (J, C.	4444444	LLD .	JUN ! !			Un. 111				<u> </u>		32.30		
FREQ	UENCY	Y	EARL'	Y	7	ลห-หเ	98	AI	R-J	เห	31	UL-S	EP	01	CT-DI	EC
1		day	nit	dŁn	day	nit	dkn	day	nit	d&n	day	nit	dan	day	การ	dan
180	MHZ	3	2	2	2	2	2	2	2	2	4	2	3	2	1	2
1 1	GHz	24	9	16	18	8	13	22	8	15	35	13	24	20	8	14
3 (GHz	39	13	21	24	12	18	26	10	18	42	17	29	28	12	20
6 (GHz	58	33	41	44	39	37	39	20	30	61	41	51	55	42	43
18 (GH2	71	€4	67	67	61	64	60	50	55	79	71	75	77	73	75
26	GHz	88	78	79	78	76	77	72	68	76	86	83	85	85	84	85

SURFACE BASED DUCT SUMMARY:

IREPS REV 2.1

PARAMETER	Y	EARL'	Y	Ji	RH-M	RR -	AI	アーチ	UN	Jŧ	JL-SE	EP	0	CT-D	EC
	day	nit	d&n	day	nit	dan	day	nit	den	day	nit	d&n	day	nit	dan
Percent occurrence	16	9	12	16	11	14	13	8	11	21	19	16	12	8	10
AYG thickness Kft			.39			.28	ì		-40	ł		.46	1		. 43
AVG trap freq GHz	l		.56	l		.78	ŧ		.43	ļ .		.42	ı		.63
AVG lyr grd -H/Kfs	<u> </u>		188			107	<u> </u>		95	i		117			111

PARAMETER	YI	EARL'	Y	Jí	AH-M	RR	ลเ	PR-JI	UN	JI	ルーミ	EP	0	CT-DI	EC
	day	nit	dan	day	nit	d&n	day	nit	d&n	day	nit	den	day	nıt	đện
Percent occurrence	37	50	43	39	50	45	41	59	58	32	43	38	34	47	41
AVG top ht Kft	l		5.8			5.5	l		5.5	ŀ		6.4	i		5.8
AVG thickness Kft	ļ		.47	i		.46	1		.51			.42			.51
AVG trap freq GHz			.31			.34			.25			.36			.27
AVG lyr and -N/Kft	ļ		62			64			62	ļ		61	į		62
AVG lur base Kft	1		5.5	l		5.2	ł		5.1			6.1	l		5.5

PERCENT I	CCCURRENCE	Yi	EARL	7	J	HH-M	RR	. A	PR-JI	ואט	i J	ひしーら	P	1 0	CT-DI	EC
		day	nit	ď&n	day	nit	din	day	nit	d&n	day	nit	d&n	day	nit	den
8 to	0 Feet	15	13	14	16	14	15	21	19	28	11	9	10	11	9	10
10 to 2	20 Feet	8	11	10	10	11	11	11	15	13	7	10	8	6	8	7
20 to 1	30 Feet	11	16	13	13	17	15	13	19	16	9	14	12	9	13	11
30 to -	10 Feet	12	17	15	13	18	16	13	19	16	10	16	13	11	16	14
40 to 5	50 Feet	12	16	14	13	16	15	11	13	12	12	16	14	13	17	15
50 to 1	50 Feet	10	12	11	11	:1	11	8	7	7	10	14	_12	12	15	14
60 to	70 Feet	7	6	7	7	5	6	4	2	3	7	ક	8	10	10	10
70 to t	BO Feet	5	3	4	4	2	3	2	1	2	5	4	4	7	5	ē
80 10	98 Feet	<u> 3</u>	1	2	_2	1	2	1	. 8	1	3	2	3	4	2	3
90 to	198 Feet	2	1	1	1	1	1	1	0	1	2	1	. 2	3	1	
above	100 Feet	15	3	9	10	2	6	14	3	8	23	6	15	13	3	8
Hean he	ight Feet	58	48	49	48	36	42	59	32	41	73	46	59	60	45	52

PARAMETER	Y	EARL	Y	J	AH-H	AR	A	R-J	JN	J	JL-SI	EP	0	CT-D	EC
	day	nit	d& ಏ	day	nit	den	day	nit	den	day	nit	dŧn	day	nit	dsn
% occur EL&SB dcts			4			6			4			4			3
% occur 2+ EL dcts			8			6			12			10			6
AVG station N			357			343			356			369			359
AVG station -N/Kft			17			15	i		17			18			17
AVG sfc wind Kts	16	16	16	28	19	20	14	13	14	13	12	13	19	18	:8

HISTORICAL PROPAGATION CONDITIONS SUMMARY

IREPS PEV 2.1

Specified location: 35 00 N 175 00 N (*) INDICATES INSUFFICIENT DATA Radiosonde source : 91066 28 13 N 177 22 N

Radiosonde station height: 8 Feet

Surface obs source: HS126 35 08 H 175 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	Y	EARL	Y	J	AN-H	AR	A	PR-J	UN	Ji	JL-SI	EP	G	CT-DI	EC
	day	nit	_d&n	day	nit	dan	day	nit	d&n	day	nit	děn	day	nit	dtn
100 MHz	3	2	2	2	2	2	2	2	2	4	2	3	2	1	
1 GHz	22	9	16	17	8	12	21	9	15	33	13	23	19	7	13
3 GHz	29	13	21	22	12	17	25	11	18	41	18	29	27	13	28
6 GHz	49	35	42	44	32	38	38	22	36	59	42	51	56	44	50
10 GHz	71	63	68	68	65	67	59	50	55	77	71	74	79	75	77
28 GHz	80	79	79	78	88	79	71	67	69	84	82	83	87	85	98

SUPERCE ROSED BUCT SUMMARY:

PARAMETER	YI	ENRL'	′	31	าห-หา	R	RF	R-Jt	JH.	Ji	JL-SE	Р	G	T-DE	EC
	day	nit	dån	day	nit	d&n	day	nit	din	day	nit	dån	day	nit	den
Percent occurrence	16	9	12	16	11	14	13	8	11	21	18	16	12	8	19
AVG thickness Kft			.39			. 28	İ		.46			. 46	!		.43
AVG trap freq GHz			.56			.78	ŀ		.43	l		.42			.63
AVG lyr grd -N/Kft	_		188			167			95			117	<u> </u>		111

ELEVATED GUCT SUNNARY:

FLEANIER POFI SOUNH	<u> </u>														
PARAMETER	Y	EARL	Υ	Į,	AH-M	RR	A	PR-J	אט	Ji	JL-S	P	O	CT-21	EC
	day	nit	ರಹಿಣ	day	กเเ	dkn	day	nit	czn	day	nit	din	day	D13	dtn
Percent occurrence	37	50	43	39	_5c	45	41	25	50	32	43	38	34	47	41
AVG top ht Kft			5.8			5.5	i		5.5	i		6.4			5.8
AVG thickness Kft			.47	l		.46	L		.5ì	l		,42			.51
AVG trap freq GHz			.31			.34			.25			.36			.23
AVG lyr grd -N/Kft			62	•		64			62	Į.		61			€2
AVG lyr base Kft			5.5	Ĺ		5.2	L		5.1	<u> </u>		6.1			5.5

E-APORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCI	JRRENCE	Y	RRL	7	J	AH-M	RR	A	PR-J	UH	31	UL-S	ĒΡ	0	CT-DI	EC
			day	nit	din	day	การ	d&n	day	nit	d&n	day	nit	đần	day	nit	4sn
9 20	18	Feet	15	13	14	15	13	14	23	21	22	13	10	12	19	8	9
10 10	29	Feet	8	10	9	18	10	10	11	14	13	6	10	ક	6	7	6
28 10	30	Feet	11	14	12	11	16	14	13	18	16	9	12	11	8	11	:0
30 10	40	Feet	12	17	15	14	19	15	14	18	16	11	16	13	11	14	13
40 to	50	Feet	12	16	14	14	18	16	10	13	12	11	17	14	14	18	16
50 10	60	Feet	11	12	11	12	12	12	7	7	7	18	13	11	13	16	. 15
60 to	78	Feet	8	7	7	8	- 6	7	4	3		7	8	7	11	1 i	
78 to	88	Feet	5	4	4	4	3	4	2	2	2	5	5	5	7	6	7
80 to	90	Feet	3	2	2	2		1	í _1_	8	1	_ 3	3	3	_ 4	_ 3	. 3
98 10	100	Feet	- 2	1	1	1	1	1	1	9	1	2	ī	2	3	1	2
above	100	Feet	14	4	9	8	2	5	13	3	8	22	6	14	12	3	8
Hean he	ight	Feet	56	41	48	48	38	43	47	32	48	69	47	58	59	46	53

PARAMETER	YEARLY		JA	ห-สค	R	AP	R-JL	IH	Jt	/L-SE	P	00	T-DE	C
ŧ	day nit d	'n	dau	nit	dtr	day	nit	d&n	day	nit	dan	dav	nit	dan
% occur EL&SB dcts		4			6			4			4			3
% occur 2+ EL dcts	i	8			6			12			10	ĺ		S
AVG station N	3:	57			343			356			369			359
AVG station -N/Kft		17			15			17			18			17
AVG sfc wind kts	17 16	16	21	20	20	14	13	14	13	_12	_12	19	18	19

(*) INDICATES INSUFFICIENT DATA

Specified location: Radiosonde source : 4YV

34 69 H 164 60 E 34 89 H 164 08 E

39 Feet Radiosonde station height:

Surface obs source: MS128 35 68 N 165 09 E

PERCEN, OCCURRE			CED								_				
FREQUENCY	Y	EARL'	Y	Ji	AH-M	38	A	PR-J	אע	Jı	リエーミ	EP	0	CT-DI	EC
!	day	nit	den	day	nit	děn	day	nit	d&n	day	nít	dån	day	nit	d&n
188 HHz	1 4	1	3	2	1	2	3	8	2	9	1	5	3	1	2
1 GHz	26	€	16	14	5	18	23	3	13	47	9	28	21	5	13
_ 3 GHz	34	9	22	21	9	15	29	4	17	55	13	34	38	_ 11	21
6 GHz	57	34	46	50	38	44	44	15	29	69	35	52	63	50	56
10 GHz	77	67	72	80	77	79	64	47	55	80	63	71	į 84	81	82
20 GHz	84	79	82	98	88	89	74	66	70	84	75	80	98	89	98

SURFACE RASED DUCT SUMMARY:

PARAHETER	YERRL	Υ	J	RH-MF	R	A	PR-J	UN	J	JL-SI	P	õ	ות-זכ	EC
	day nit	dan	day	nit	d&n	day	nit	d&n	day	nit	din	day	nit	den
Percent occurrence	25 €	15	19	9	14	22	2	12	40	6	23	18	5	12
RVG thickness Kft		.39	ĺ		.27	1		. 31			.57	i		.42
AVG trap freq GHz		.66	i i		1.1			.73			.34			.50
AVG lyr grd -N/Kft		89	ļ		105	1		91			70	ŀ		91

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	3	คห-สเ	12	À	P-J	77	J1	JL-SI	J.	O	CT-DI	C
	day	nıt	d&n	day	nit	dån	day	nit	dan	day	การ	din	day	nit	d&n
Percent occurrence	17	26	22	9	14	12	21	32	27	22	34	28	16	24	28
AVG top ht Kft			5.3	ı		5.9	İ		4.6	i		5.1			5.5
AVG thickness Kft			. 44	l		.29			.48			. 54			.43
AVG trap freq GHz			.48			.61			.32			.32			.34
AVG lyr grd -N/Kft	Ì		64	}		63			68			61	l		65
AVG fyr base Kft			5.0	Ì		5.6	ŀ		4.3			4.8	i		5.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	occi	JRRENCE	Y	ERRL	7	J	AN-MI	R.	R	PR-J	אנו	Ji	UL-SI	ΕP	G	T-DE	C
			day	nit	dtn	day	nit	d&n	day	nit	dan	day	nit	din	Cay	nit	din
8 10	18	Feet	14	12	13	7	6	7	24	21	22	20	16	18	7	6	7
10 to	20	Feet	6	Э	8	5	6	6	19	14	12	7	11	9	4	5	5
20 to	39	Feet	9	13	11	11	12	12	12	19	16	8	13	10	7	. 9	8_
30 to	40	Feet	12	17	14	16	28	18	13	19	16	8	14	11	10	14	-13
40 to	58	Feet	13	17	15	19	22	21	11	13	12	9	15	12	14	18	:6
58 10	60	Feet	12	14	13	17	18	17	8	7	8	9	13	11	16	19	17
68 to	70	Feet	9	- 8	8	10	9	9	5	3	4	7	7	7	13	13	13
78 to	86	Feet	- 6	4	5	6	4	5	3	1	2	5	3	4	9	8	9
98 to	98	Feet	3	2	2	_ 2	1	2	_2	- 8	1	3	2	3	5	4	4
90 to	100	Feet	2	1	1	1	0	1	1	8	1	2	ī	2	3	1	2
above	100	Feet	13	2	8	5	1	3	12	2	7	23	5	14	10	2	6
Hean he	ı ghi	Feet	56	41	48	50	42	46	47	30	39	68	41	55	60	49	54

PARAHETER	Ϋ́E	ARL'	ř	36	H-H	AR	AF	R-J	H	Jt	JL-SI	EP	00	T-DE	C
	day	nit	dir	day	nit	din	day	nıı	din	day	nit	dŧn	day	nit	はっ
% occur EL&SB dcts			3			2			3			5			2
% occur 2+ El dcts			3	ļ		0	i		4			5	l		1
AVG station H			349			328	ŀ		345			379	l		343
AVG station -H/Kft			17	ł		14	ł		16			21			15
AVG sfc wind Kis	18	17	17	22	21	22	16	15	16	13	13	13	20	19	23

TREPS REV 2.1 MISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 35 00 N 155 00 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 4YY 34 00 H 164 80 E

Radiosonde station height: 39 Feet Surface obs source: MS129 35 00 N 155 00 E

DEDCENT DECURPTION OF PURDUETS CHOPDES TO CURPOSE BOXED COM COM DOLLAR

PERCENT OCCURRENCE	OF E	NHHN	LED .	SURF	HEF-	10-5	UKEH	LE N	HUHR	ESM	/CUM	KHH	ES:		_
FREQUENCY	TY	YEARLY day nit dan d				AR	A	PR-J	אט	J	UL-\$!	EP	01	CT-DE	EC
	day	nit	d&n	day	rit	d&n	dav	nit	dtn	day	nit	din	dav	<u> 11 t</u>	<u> </u>
100 MHz	4	1	3	2	1	2	3	0	2	9	1	5	3	1	2
1 GHz	26	6	16	13	5	9	24	3	14	49	9	29	20	5	12
3 GHz	34	9	22	20	- 8	14	31	4	1?	57	13	_35	38	11	20
6 GHz	68	38	49	53	41	47	47	17	32	72	38	55	66	54	60
18 GHz	į 80	71	75	85	82	83	66	50	58	83	67	75	87	\$4	85
28 SHz	87	82	85	93	92	92	76	66	71	87	88	83	93	92	92

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL'	Υ	J	คน-M	iR _	AF.	-R−Jt	JH	7	JL-SE	P	Ü	T-01	έC
	day	nıt	din	day	nit	d&n	day	nit	dan	day	nit	den	day	nit	dħn
Percent occurrence	25	6	15	19	9	14	22	2	12	40	ő	23	13	5	12
AVG thickness Kft			.39	i		. 27	ĺ		.31	!		.57			. 42
AYG trap freq GHz			.66			1.1			.73	ĺ		. 34			.50
AVG lyr grd -N/Kft			89			105			91			70			91

ELEVATED DUCT SUMMARY:

FLEANIER BOCK SOUUH	KY:														
PARAMETER	YE	ARLY	. —	J	AK-MI	AR -	Al	PR-JI	JH	3	JL-SI	EP	00	T-DI	EC
	day r	nit	d&n	day	ការ	den	day				nit	dar	day	nit	dz-۰
Percent occurrence	17	26	22	9	14	12	21	32	27	22	34	28	16	24	۵,
AYG top ht Kft			5.3	İ		5.9			4.6			5.1			5.5
AVG thickness Kft			.44			.29			.48	<u></u>		54			.43
RVG trap freq GHz			.40	1		-51			.32			.32			. 34
AVG lyr grd -N/Kft			64	1		63	i		68			61			65
AYG lur base Kft	Ĺ		5.0	L		5.6			4.3			4.8	Ĺ		5.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT OCCU	RRENCE	YI	ARL	7	J	AN-HI	R.	RI	R-J	JN	7	uL-Si	EP	0	CT-DI	Ç
		day	nıt	din	day	nit	dan	day	การ	d&n	day	nit	d&n	day	กาเ	dtn
8 to 18	Feet	12	10	11	5	3	4	22	28	21	16	13	15	6	- 5	5
10 to 20	Feet	5	\$	7	4	4	4	9	13	11	6	9	7	4	4	4
20 to 30	Feet	. 9	12	10	9	11	10	12	17	14	_ 7	_13	10	_7		?_
38 to 48	Feet	11	17	14	15	19	17	12	19	15	8	16	12	10	13	11
49 to 59	Feet	14	18	16	21	25	23	11	15	13	9	15	12	15	19	17
50 to 60	Feet	14	16	15	20	21	_28	9	9	_9	9	13	11	17	_26	_18
60 to 70	Fee:	18	9	9	11	10	10	5	3	4	7	8	8	15	16	16
70 to 80	Feet	- 6	5	6	6	4	5	3	1	2	6	5	5	10	9	10
80 to 90	Feet	3	2	3	3	1	2	2	1	1	_ 4	2	3	6	3	5
98 to 198	Feet	2	1	1	1	8	- 1	1	0	1	2		2	3		2
above 100	Feet	13	2	8	4	1	2	13	2	8	26	5	16	9	2	5
Hean height	Feet.	59	43	51	50	44	47	58	32	41	75	44	59	68	51	₹5

PARAMETER	YE	HEL.	Y	JF	111-111	AR	AF	-R-Ji	JH .	31	JL-Si	ΞP	Û	. T - DI	EC
	day	nit	d&n	day	nit	dan	day	nit	d&n	day	nit	din	day	nit	Gtn
% occur EL&SB dcts			3			2			3			5			- 2
% occur 2+ EL dcts	ĺ		3			0	ĺ		4	Ì		5	(1
AVG station N	1		349	ŀ		328			345			379	1		343
AVG station -N/Kft			17			14	ĺ		16			21	ĺ		15
AVG sfc wind Kis	18	17	18	22	21	22	16	15	16	14	13	13	20	19	19

IREPS REV 2.1

39 43 N 140 06 E (*) INDICATES INSUFFICIENT DATA Specified location: Radiosonde source : 47582 39 43 N 140 06 E

Radiosonde station height: 30 Feet

Surface obs source: MS130 35 00 N 145 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SUPFACE RADAP FSM COM PANCES:

LENCEHT OCCORRETTE	L 01 L	4111.74		2041.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		OF F AI		DITE			F 13.4	46.7.		
FREQUENCY	Y	EARL'	Y	Ji	3H-H	AR	91	PR-JI	UN .	J	ut -S	EP	0	CT-DI	EC
	day	nit	d&n	day	nıt	d&n	day	nit	den	day	nit	den	day	กาะ	_da ≈
100 HHz	e	6	- 8	0	- 0	- 8	8	- 6	0	8	а	Ð	8	Ð	_ 5
1 GHz	14	4	9	4	1	3	15	6	10	2€	7	17	10	3	6
3 GHz	20	9	14	_ 8	_ 4	- 6	19	. 8	13	34	12	23	21	11	16
6 GHz	52	42	47	49	43	45	39	2€	32	56	40	48	65	59	—€3
10 GHz	77	74	75	83	83	83	62	57	60	73	69	71	89	87	88
28 GHz	85	85	85	92	93	92	72	72	72	เลล	88	88	95	94	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YI	EARL'	Y	J	AH-HI	AR	l Bi	マネーゴリ	JH .	J:	JL-Si	EP	61	CT-B	ΕĆ
	dzy	nıt	den	day	niz	d&n	day	nit	dtn	day	nit	den	day	nit	ರಕ್ಷಣ
Percent occurrence	2	1	1	1	1	1	ī	2	2	3	2	3	1	9	1
AVG thickness Kft			. 35	ł		.22			.30	i		.33	1		. 54
AVG trap freq GHz			1.1	ſ		1.4			1.0			1.8	1		1.0
AVG lyn and -N/Kft			165			183			163	L		163	L		151

ELEVATED DUCT SUMMARY:

PHRHMETER		EHRL	-	•	AN-M			-K-J			JL-SI			:T-BI	
	day	nit	ರಭಿಗ	dru	nit	din	day	nit	d&n	day	nit	dan	day	nit	den
Percent occurrence	4	- 5	- 5	1	1	1	3	- 5	4	12	13	13	1	2	2
AVG top ht Kft			5.3	l		6.1	l		3.7			5.0	l		6.2
AVG thickness Kft	i		.28	L _		.17	}		.32	ļ .		.42	į		.21
AVG trap freq GHz			1.4			2.6			1.0			.50			1.4
AVG Tyr grd -N'Kft	1		60	l		65	i		55	•		57	i		61
AVG for base Kft			5.1	ĺ		6.0	l		3.5	l		4.7	l		6.0

JUL-SEP

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OCT-DEC

PERCENT OCCURRENCE YEARLY JAH-MAR APR-JUN

			day	nit	dån	day	r-) t	d&n	day	nit	din	day	nit	dzn	day	nít	dtn
0 to 1	6	Feet	11	9	10	4	3	3	29	17	19	16	12	14	3	3	3
10 to 2	Ū	Feet	5	6	6	4	4	4	8	11	9	5	7	5	2	3	3
20 to 3	0_	Feet	<u>i 8</u>	11	9	9	10	9	19	15	13	7	11	٩	6	7	6
30 to 4	0	Feet	11	15	13	15	17	16	11	17	14	8	14	11	16	11	:0
40 to 5	Ċ	feet	14	18	16	20	24	22	12	15	14	9	15	12	14	17	15
50 to 6	9_	Feet	14	17	15	21	22	21	18	11	18	3	14	12	17	20	19
60 to 7	0	Feet	11	11	11	13	12	12	6	5	5	8	9	8	16	18	17
78 to 81	B	Feet	7	6	?	7	5	6	4	2	3	6	5	6	12	11	12
80 10 %	8_	Fest	4	3	3	_ 3	2	2	2	. 1	2	5	3	4	7	5	6
98 10 1	98	Feet	2	<u>i</u>	2	1	1	1	1	1	1	3	1	2	4	3	<u>3</u>
above 1	66	Feet	13	4	8	4	ì	2	15	5	10	25	6	16	:8	3	6
Hean hei	ghi	Feet	83	47	54	52	46	49	54	39	47	73	45	61	63	55	59

PARAMETER	YE	ARL	Υ	71	AN-M	AR.	AF	P-11	NH	Jı	IL-SI	P	00	T-DE	ï
	day	nit	din	day	***	ತ೬ಗ	day	nit	d\$r	Ca-	***	dt n	dan	rit	3:0
occur ELESB dcts			8			0	!		0			<u> </u>			ō
: occur 2+ EL dczs	ĺ		9	1		9	ĺ		9			9	i		a
AVG station N	ĺ		330	i		312	ļ		329			358			328
AVG station -H/Kft			13	i		11	1		13			15	l		12
avg séc usag ris l	17	17	17	21	21	21	15	15	15	14	13	14	19	18	19

HISTORICAL PROPAGATION CONDITIONS SUMMAPY IPEPS REV 2.1

Specified location: 38 16 N 140 54 E Radiosonde source: 47590 38 16 N 140 54 E (*) INDICATES INSUFFICIENT DATA

Radiosonde station height: 125 Feet

Surface obs source: HS130 35 00 H 145 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM'COM RANGES:

	<u> </u>														
FREQUENCY	Y	EUST.	Y	J	AN-M	AR	RI	PR-JI	UH .	JU	JL-SI	EP	00	CT-DE	EC
l	day	การ	dan	day	nıt	dŁn	day	nit	d&n	day	nit	dtn	day	nit	dan
198 MHz	0	0	0	8	8	8	Ð	8	8	0	8	8	8	e	9
1 642	14	4	9	4	1	3	15	5	10	26	?	16	10	3	7
3 GHz_	20	9	14	8	_4	_ 6	19	8	13	33	12	22	21	11	16
6 GHz	52	42	47	49	43	46	39	25	32	56	48	48	66	68	63
16 GHz	77	74	75	83	83	83	62	57	59	73	69	71	89	87	88
20 GHz	83	85	85	92	93	92	72	72	72	86	89	80	95	94	94

SUPPRICE RASED DUCT SUMMARY:

SOLL HITE BUILD BACT C					
PARAMETER	YEARLY	Jan-Har	APR-JUN	JUL-SEP	OCT-DEC
	day nit dên	day nit dan	day nit dan	day nit d&n	day nit din
Percent occurrence	1 1 1	1 1 1	1 1 1	1 2 2	1 1 1
AVG thickness Kft	.24	.16	.33	.25	.21
AVG trap freq GHz	1.3	1.8	.77	1.3	1.5
AVG lyr grd -N/Kft	214	231	172	217	237

FI EVATED DUCT SUMMARY:

PARAMETER		ERRL'			ลห-หล			PR-JI			JL-\$1			CT-D	
	day	nit	d&n	day	nit	dån	day	nit	d&n	day	การ	din	day	nıt	dan
Percent occurrence	3	4	3	9	8	8	3	7	5	8	6	7	2	1	- 2
AVG top ht Kft			4.6	1		2.9	•		5.0			5.8	l		5.6
AVG thickness Kf:			. 38		_	. 68			. 32			.48			. 31
AVG trap freq GHz			1.8			4.9			.70			.43			1.2
AVS lyr grd -N/Kft			68			69	1		55			55	ļ.		61
AVG lyr base Kft			4.4	i		2.9			4.7	L_		5.4	١.		4.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PERCENT OCCURR	RENCE	YE	ARLI	1	J	H-H	R.	A	アーゴ	JN	Je	JL-SE	P	00	T-DE	. C
	1	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	nSb	day	กาะ	dan
0 to 10 Fe	et	11	9	10	4	3	3	28	17	19	16	12	14	3	3	3
10 to 20 Fe	et	5	É	6	4	4	4	8	11	9	5	7	6	2	3	3
28 to 38 Fe	et	- 8	_11	9	9	10	9	16	15	13	7	11	9	6		- 6
30 to 40 F€	191	11	15	13	15	17	16	11	17	14	8	14	11	10	11	10
40 to 50 Fe	242	14	18	16	28	24	22	12	15	14	9	15	12	14	17	15
58 to 68 Fe	et_	14	17	15	21	22	21	10	11	18	9	14	:2	17	28	19
60 to 78 Fe	et	11	11	11	13	12	12	6	5	5	8	9	8	16	18	17
78 to 88 Fe	et	7	6	7	7	5	õ	4	2	3	6	5	6	12	11	12
88 to 98 Fe	et	_ 4	3	3	_ 3	_ 2	2	_2	1	2	5	3	4	7	_5	- 6
98 to 188 Fe	46.	2	1	2	1	1	1	1	1	1	3	<u> </u>	2	4	3	3
above 188 Fe	291	13	4	8	4	1	2	15	5	10	25	6	16	10	3	6
Hear, height F	199	69	47	54	52	46	49	54	39	47	73	48	61	63	55	59

PARRHETER	YEARI	.Υ	J1	3H-HI	R.	AP	P-Je	JH .	Ju	L-SE	P	00	T-DE	C
	day nii	dan	day	nit	din	day	nit	dan	day	nit	dan	day	nit	din
% occur EL&SB dcts		9	-		0	_		0			-0]		b
% occur 2+ EL dcts		Ð	1		9	1		6			1			0
AVG station N		338	ł		389	l		329	1		362	•		3:8
AVG station -N/Kft		12	ĺ		11			12			14	i		12
AVG sfc wind Kts	17 17	17	21	21	21	16	15	15	14	13	14	19	18	18

Specified location: 33 34 N 130 22 E (*) INDICATES INSUFFICIENT DATA Radiosonde source : 47897 33 34 N 138 22 E

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Radiosonde station height: 10 Feet

Surface obs source: MS131 35 00 N 135 00 E

PERCENT OCCURPENCE OF ENHANCED SURFACE-TO-SURFACE RADARZESM COM PANGES:

	FRE	RUENCY	Y	EARL'	Ÿ	J	คห-หเ	RR	Ä	PR-JI	UN	Jı	UL-S	EΡ	0	CT-D	EC -
<u> </u>			day	nit	d&n	day	nit	d&n	day	nit	ď&n	day	nit	den	day	n11	dŧn
- T	196	MHz	3	8	0	0	- 8	0	0	0	6	Ø	0	9	6	0	0
į.	1	GHz	17	7	12	5	3	4	21	18	16	29	11	20	12	5	9
<u> </u>	3	GHz	25	_13	19	16	6	. 8	27	14	20	37	17	27	25	16	21
	6	GHz	59	49	54	53	49	51	48	35	41	62	47	55	72	66	69
1	10	GHz	81	78	80	84	§2	83	69	64	67	80	75	77	92	98	91
	28	GHz	89	88	88	93	93	93	79	78	78	87	85	_ 86	96	95	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YI	ERRL	Y	J	M-HR	AR	R	R-J	UH .	J	UL-S	ΕP	0	CT-D	EC
l	day	nit	dan	day	nis	den	day	nit	d&n	day	nit	dan	day	nit	d۶ n
Percent occurrence	1	2	1	0	1	1	1	3	2	2	2	2	1	1	1
AVG thickness Kft			.37	l		.28	l		.32	l		.42			.47
AVG trap freq GHz			.82	•		.65			.72	l		1.4	l		.52
AVG lyr and -N/Kft			134			194			134	L_		195			104

ELEVATED DUCT SUMMARY:

PARAMETER	7	ERRL'	Y	J1	M-HA	กล	AI	PR-JI	ŲН	31	JL-SI	EP	0	CT-DI	EC
_	day	nit	d&n	day	nst	d&n	day	nit	d&n	day	rit	dtn	day	nıt	d&n
Percent occurrence	8	8	8	1	1	1	11	11	11	13	11	12	8	- 8	8
AYG top ht Kft	ĺ		4.6	ĺ		3.8	j		4.4			5.6	ı		4.6
AVG thickness Kft	1		. 34	i		. 25	l		.38			.49	1		.23
HVG trap freq GHz			1.1			2.8	i —		.58			.42			1.6
AVG Tyr grd -N/Kft	İ		58			65	i		58			55			53
AVG lyr base Kft	ı		4.3	l		3.7	•		4.1			5.2	l		4.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	330	URRENCE	Y	ERRL	Y	J	AH-M	AR	fi	PR-J	JH.	31	UL-S	EP	00	CT-D!	C
			day	nıt	d&n	day	nit	d&n	day	nit	dån	day	211	den	day	nı.	dtn
0 to	18	Feet	7	6	6	3	2	3	15	13	14	9	8	8	2	\overline{i}	1
ið to	26	Feet	4	6	5	4	5	4	7	10	8	4	7	6	2	3	2
28 to	30	Feet	7	10	9	9	11	18	10	14	12	7	11	9	4	6	5
30 to	40	Feet	10	13	12	14	15	15	10	15	13	8	13	11	8	18	9
40 to	50	Feet	13	16	14	17	19	18	11	15	13	9	15	12	12	14	13
58 to	60	Feet	14	16	15	28	21	28	9	16	10	10	14	12	16	17	17
68 10	76	Feet	12	13	12	15	15	15	7	7	7	9	10	13	17	19	18
78 to	80	Feet	è	8	8	8	7	7	5	4	5	7	6	7	14	14	14
89 to	98	Feet	5	4	4	3	2	3	3	2	3	5	4	4	8	7	3
90 to	100	Feet	3	2	2	1	1	1	2	1	2	3	2	2	5	4	4
above	109	Feet	1€	6	11	5	2	4	21	8	15	28	10	19	12	5	а
Hean he	1gh	t Feet	68	53	61	55	50	52	66	47	57	82	55	69	78	60	65

PARAMETER	Y5	RRL	Y	Jf	H-KF	AR	, Ai	5-10	UN	31	UL-51	EP	0	CT-D1	EC
	day	nit	d&n	day	nıt	den	day	nit	dan	day	011	den	da	211	d.
% occur EL&SB dcts			- 0			8			9			9			- ē
% occur 2+ EL dcts			0	ł		8			Θ			1	l		1
AVG station N			337	1		315	i		337			368			325
AVG station -N/Kft			13	l		11	İ		14			15			12
AVG afe used Kta	15	14	15	18	17	17	14	14	14	13	12	12	16	15	16

HISTORICAL PROPAGATION CONDITIONS SUMMAP IREPS REV 2.1

33 07 N 139 46 E (*) INDICATES INSUFFICIENT DATA Specified location:

Radiosonde source : 47678 33 87 N 139 46 E

Radiosonde station height: 502 Feet Surface obs source: MSI31 35 00 N 135 80 E

FERCENT OCCURRENCE OF FUHAMUED SURFACE-TO-SUPERCE RADAR/FOM/COM RANCES.

ERCEIT! O	CCORRENCE	<u> </u>	14411711	CED	SURF		10 3	JAT IN		HUTTE.	E 311	COIL	15 (1111)	<u> </u>		
FREQ	UENCY	Y	EAKL'	Υ	[J	H-H	RR	R	PR-J	UN	JI	JL-SI	EP	00	CT-DE	EC
		day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	dtn	day	nit	den
100	MHz	0	- 0	8	0	- 0	- 0	0	9	8	0	0	0	0	0	6
1 (GHz	17	7	12	5	3	4	22	9	15	29	16	28	12	5	8
3 (GHz	25	13	19	10	6	8	27	13	20	37	16	26	25	16	21
6 (GHz	59	49	54	53	48	51	48	34	41	62	46	54	72	66	- 69
10 (GHz	81	78	88	84	82	83	70	64	67	80	74	77	92	98	91
28 (GHz	89	88	88	93	93	93	79	78	78	87	85	86	96	95	96

CHOCOCE DOCED BUCT CHMMODY.

SUMPHILE BUSED DOLL S	SUMMART:				
PARAMETER	YEARLY	JAH-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit d&n	day nit dan	day nit den	day nit dan
Percent occurrence	1 1 1	1 1 1	2 2 2	2 0 1	0 1 1
AYG thickness Kft	.35	.22	.40	.38	.41
AVG trap freq GHz	1.2	2.0	.78	1.1	.82
AVG lyr grd -H/Kft	135	176	118	158	98

ELEVATED DUCT SUMMA	<u> </u>													
PARAMETER	YEARL	Υ	J	AH-M	RR	A	PR-J	UH	Jt	j\$	EP	1 0	7-Di	EC
	day nit	d&n	day	กาง	d&n	day	nit	dŁn	day	nit	dan	day	nıt	dtn
Percent occurrence	10 13	11	4	5	5	14	18	16	13	18	16	7	9	J
AYG top ht Kft		4.2	1		4.4	1		4.0			4.1			4.5
AVG thickness Kft		.38	<u> </u>		.24	i		.54	Ĺ		. 45	[3ម
AVG trap freq GHz		.71	1		1.3	i		.29			.46			.82
AVG lyr grd -N/Kft		55	•		53	1		57	İ		53			56
AVG lyr base Kft		3.9	<u></u>		4.2			3.6			3.7	L		4.3

EVAPORATION BUCT HISTOGRAM IN PEPCENT OCCURRENCE:

PERCENT OCCURREN	CE Y	EARL	Y	J	AN-M	RR	ŔI	R-J	JH.	71	JL-SI	P	00	T-DE	ť
	day	กร	d&n	day	nit	din	day	nıt	d&n	dav	nit	den	day	nit	d&n
0 to 10 Feet	7	6	6	3	2	3	15	13	14	9	8	8	2	1	1
10 to 28 Feet	4	6	5	4	5	4	7	10	8	4	7	6	2	3	2
20 to 30 Feet	<u> </u>	10	_ 9	9	11	10	16	14	12	7	11	9	_ 4	٤	5
30 to 40 Feet	10	13	12	14	15	15	10	15	13	. 6	13	11	8	18	<u> </u>
48 to 50 Feet	13	16	14	17	19	18	11	15	13	9	15	12	12	14	13
50 to 60 Feet	14	16	15	20	21	20	9	18	10	10	14	12	16	. 17	17
60 to 70 Feet	12	13	12	15	15	15	7	7	7	9	10	10	17	19	18
78 to 80 Feet	9	8	8	8	7	7	5	4	5	7	6	7	14	14	14
80 to 90 Feet	_ 5	4	4	3	2	3	3	- ĉ	3	5	4	4	8	_ 7	. 9
98 to 186 Feet	3	2	2	1	1	1	5	1	2	3	2	2	5	4	4
above 100 Feet	16	6	11	5	2	4	21	8	15	28	10	19	12	5	ಕ
Hean height Fee	t 68	53	61	55	58	52	66	47	57	82	55	69	70	-58	65

SELECTIVE ME - COL ACOUT	00.11111111				
PARAMETER	YEARLY	JAN-MAR	APP-JUH	JUL-SEP	OCT-DEC
	day nil din	day nit den	day not dan	day nit d&n	day nit dan
% occur EL&SB dcts	8	0	0	9	Ü
% occur 2+ EL dets	9	9	j e	1	9
AVG station N	340	313	342	376	330
AVG station -N/kft	15	12	16	18	13
AVG sfc wind kts	15 14 15	18 17 17	14 14 14	13 12 12	16 15 16

Specified location: 34 43 N 137 40 E (*) INDICATES INSUFFICIENT DATP Radiosonde source: 47681 34 43 N 137 40 E

Radiosonde station height: 154 Feet

Surface obs source: MS131 35 00 N 135 00 E

PEPCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SUPFACE RADAR ESM COM PANGES:

PERCENT OC	CONFESSE OF	£111111	11. E.D	JUNE		, ,	Jr - 111		ייועי		<u> </u>	F 11111	1-2.		
FREQUI	ENCY	YEAR	LY	J	AN-MA	1R	A:	P-31	H	Ji	JL-SI	EP	00	CT-DE	LC
	da	ay ni	t d&n	day	nit	d&n	day	nıt	đần	day	nit	d&n	day	nıt	dan
100 M	H2	0	0 0	0	0	0	9	9	8	1	1	1	0	- 0	0
1 G!	Hz 1	17	7 12	5	2	4	21	9	15	30	12	21	12	5	8
3 G	Hz lá	25 1	3 19	10	6	8	27	13	28	38	18	28	25	16	21
6 GI	Hz 5	9 4	9 54	53	48	50	48	34	41	63	48	56	72	66	69
10 GI	Hz 8	32 7	8 89	84	82	83	69	64	67	81	75	78	92	90	91
20 GI	H2 8	39 8	88 8	93	92	93	79	78	78	87	86	87	96	95	96

CHIPCOCE ROSER BUCT CHMMARY.

PARAMETER	YEARL	Ÿ	J:	AH-MI	AR	AF	R-J	ÜN	JI	JL-SI	EP	00	T-DE	EC
	day nit	dtn	day	rit	d&n	day	nit	d&n	day	nit	d&n	day	nit	dan
Percent occurrence	2 2	2	9	- 0	0	2	2	2	6	5	6	8	1	1
AYG`thickness Kft		. 25	l		.13	l		.30			.16	l .		.39
AVG trap freq GHz		2.6	1		6.3	ĺ		2.1			1.7	[.48
AVG Tun gnd -N/Kft		175	L		*			208			198			127

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL	Υ	J	AH-M	AR	A	R-JI	Jil	Jt	JL-SI	Ρ	01	CT-DI	EC
	day	nit	d&n	day	nit	dan	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	- 5	5	1	1	1	8	8	8	5	8	7	2	4	3
AVG top ht Kft	1		4.8			3.5	1		4.8	l		5.6			5.4
AVG thickness Kft			.36			.32	l		.33	1		.49			. 29
AVG trap freq GHz			.71			.73			.85			.47	${}^{-}$.80
AVG lyr grd -N/Kft	İ		60	l		72	i		55	l		55	i		56
AVG lyr base Kft			4.6	[3.3	Ī		4.5	[5.2			5.2

EVAPOPATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

EAMERSHIP TOTAL HT	2100	rui,	111 -	1	1 · O	CCORI	FERT	•							
PERCENT OCCURRENCE	YI	ERRL	Y	JI	AH-MI	RR T	AF	<u> </u>	ЛH	JI	JL-SE	P	00	T-DE	C
	day	<u>n</u> ıt	d&n	day	nit	d&n	day	nit	d£n	day	nit	dan	day	nit	den
0 to 10 Feet	7	6	6	3	2	3	15	13	14	9	- 8	8	2	1	1
10 to 20 Feet	4	- 5	5	4	5	4	7	18	8	4	7	6	2	3	2
20 to 30 Feet	7	10	. 9	9	11	10	10	14	12	7	11	91	4	6	5
30 to 40 Feet	10	13	12	14	15	15	10	:5	13	8	13	11	8	10	9
40 to 50 Feet	13	16	14	17	19	18	11	15	13	9	15	12	12	14	13
50 to 60 Feet	14	16	15	20	21	28	9	10	10	19	14	12	16	17	17
60 to 70 Feet	12	13	12	15	15	15	7	7	7	9	10	10	17	19	18
79 to 80 Feet	9	8	8	8	7	7	5	4	5	7	6	7	14	14	14
80 to 90 Feet	5	4	4	3	2	3	3	2	3	5	4	4	8	7	8
90 to 100 Feet	3	2	2	1	1	1	2	1	2	3	2	2	5	4	4
above 180 Feet	16	6	11	5	2	4	21	8	15	28	16	19	12	5	3
Mean height Feet	68	53	61	55	50	52	66	47	57	82	_ 55	€9	70	60	65

Ц

PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit din	day nit dan	day nit dan	day hit dan	day ris den
% occur EL&SB dcts	8	9	9	9	9
% occur 2+ EL dets	9	0	0	1	0
RYG station N	349	312	343	377	327
RVG station -N/Kft	14	12	14	17	13
AVG afe wind Kis	15 14 15	18 17 17	14 14 14	12 12 12	16 15 16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified loca in: 31 37 N 130 34 E (*) INDICATES INSUFFICIENT DATA Radiosonde sour.: 47827 31 37 N 130 34 E Radiosonde station height: 925 Feet

Surface obs source: MS131 35 00 N 135 00 E

PEPCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAP ESM.COM RANGES:

PERCENT OCCUR	RENCE OF EN	MARCEN	JUEF	NCE-	10-31	OF F IT!	LE PI	1906	E 311	CUM	KINI	JE 3.		
FREQUENC	YE	ARLY	3	AH-H	AP.	A A	PR-JI	JN	30	JL-SE	P	00	T-DE	EC
L	day	nit dår	day	กเร	d&n	day	nit	d&r	day	rit	dan	day	nit	dtn
189 MHz	0	0 6	0	9	9	Ð	9	- 0	9	1	9	9	0	8
1 GHz	17	7 12	2{ 3	2	4	22	10	16	29	12	21	12	5	3
3 GHz	25	13 19	10	6	_ 8	28	14	21	37	18	_27	25	16	2છ
6 GHz	59	49 54	53	48	50	49	36	42	63	48	55	72	F 6	20
18 GHz	82	78 88	84	82	83	70	65	67	80	75	78	92	90	91
20 GHz	89	88 88	3 93	92	93	79	78	79	87	86	86	96	95	44

SURFACE BASED BUCT SUMMARY:

PARAMETER	VEOD!			011-146	50		20.1		r		-			
PHRHIEIER	YEARL			AN-NA			R-J	• • • •		JL-59			T-B	
l	day nit	<u>d&n</u>	day	nit	d&n	day	nıt	dùn	day	7:37	dan	day	nit	dan.
Percent occurrence	2 2	2	0	0	0	4	5	5	2	3	3	1	-0	1
AVG thickness Kft	ì	. 35			.17			.40			.61			.≥2
946 trap freq GHz		2.7	1		5.4			2.0			.50	l		2.3
AVG lyr and -N/Kft	[101			109	L		97		_	69			12:

FLEVATED DUCT SUMMARY:

ELEVATED BUCT SUMMAR	(Y:														
PARAMETER		APL			AK-MI			PR-JI			UL-S			C7-Di	
L	day	nıt	d&n	day	nit	<u>d&n</u>	day	nıt	din	day	กาะ	d tn	day	<u>n1</u> t	din
Percent occurrence	9	9	9	2	3	- 3	13	13	13	12	11	12	9	7	====
AVG top ht Kft			4.1	1		3.8	1		4.1			4.2	ſ		3.8
AVG thickness Kft			.35	<u> </u>		.27	L		.33			.46	L	_	. :1
AVG trap freq GHz			. 77	i –		1.2			.78			.42			.78
AVG lyr grd -N/Kft	1		56]		57	ı		55	l		56	1		56
AVG lyr base Kft			3.8	L		3.6			3.9			4.3			3.5

EVAPORATION DUCT HISTOGRAM IN PEPCENT OCCUPPENCE:

PERCENT OCCURR	ENCE	ΥE	ARLY		36	an-Me	iR	AF	R-JU	Ж	J	JE-\$2	P .	G.	T-IE	
		ay_	nıt_	dên	day	nit	dln	day	nit	dtn	day	กาเ	dan	⊄av	011	din
0 to 10 Fe	et	7	6	6	3	2	3	15	13	14	9	- 8	3	2	1	1
10 to 20 Fe	et	4	6	5	4	5	4	7	10	8	4	7	6	2	3	2
20 to 30 Fe	er _	7_	10	9	9	11	10	10	14	12	7	11	٥	4	6	_ 5
30 to 40 Fe	et	16	13	12	14	15	15	10	15	13	8	13	11	8	10	<u>-</u>
40 to 50 Fe	et	13	16	14	17	19	18	11	15	13	9	15	12	12	14	:3
50 to 60 Fe	<u>et [</u>	14_	16	15	20	21	20	9	10	10	10	14	12	16	17	_17
68 to 70 F€	22	12	13	12	15	15	15	7	7	7	9	10	10	17	19	18
70 to 80 Fe	et	9	8	8	8	7	7	5	4	5	7	6	7	14	14	1 -
80 to 90 Fe	et	5	4	4	3	2	3	_3	2	3	5	4	4	S	7	ક
90 to 100 Fe	et	3	2	2	1	1	1	3	1	2	3	- 2	2	5	4	-4
above 100 Fe	et	16	6	11	5	2	4	21	8	15	28	10	19	12	5	8
Mean height F	eet i	68	53	61	_55	50	52	66	47	57	82	55	69	70	60	

PARAMETER	YEARLY	JAN-MAR	APP-JUN	JUL-SEP	OCT-DEC
	dav nit dån	day nit din	day nit din	day not dar	da nit den
% occur EL&SB dcts	0	0	0	9	0
% occur 2+ EL dcts	8	0	1	1	0
RVG station N	333	309	336	365	300
AVG station -N/Kft	14	12	15	17	13
AVG sfc wind Kts	15 14 15	18 17 17	14 14 14	13 12 12	16 15 16

HISTOPICAL PROPAGATION COMDITIONS SUMMARY IREPS REV 2.1

(*) INDICATES INSUFFICIENT DATA Specified location: 33 27 N 135 46 E

33 27 N Radiosonde source : 47778

Radiosonde station height: 248 Feet

35 00 H 135 00 E Surface obs source: MS131

peocent accupature of Eupapreh Cupare-TO-Cupeare Pahap ESM com Danges.

PERCENI L	SCIURRENCE O	UF 51	HHI	LED :	SUFF	766-	y-51	<u> </u>	-C F	TURE	E 31.	. 0	K PLIE	<u> </u>		
FREC	DUENCY	Y	EUST,	¥	J1	ลห-หร	R	A!	PR-J1	JH	JI	JL-S!	EΡ	0:	CT-DI	EC
[_	day	012	dŧn	day	nit	d&n	day	nit	den	day	r1*	n3b	day	nit	dtr.
100	HHZ	0	8	9	0	Ð	9	Ø	1	_ o	8	9	9	8	Ö	0
1	GH2	17	7	12	5	3	4	22	10	16	30	11	26	12	5	9
_ 3	GHZ	25	14	19	19	7	8	27	15	21	38	17	27	26	16	21
6	GHE	59	49	54	53	49	51	48	36	42	63	47	55	72	66	65
10	GH≂	82	78	88	84	€2	83	70	65	67	86	75	78	92	90	91
20	CHz	89	88	88	93	93	93	79	78	79	87	85	86	96	95	96

the first of the design of the second of the

SUPFACE BASED BUCT SUMMARY:

PARAMETER	Y	EARL'	Y	J	AN-M	38	អា	R-JI	Úŧ ŧ	J!	u,-SI	۶-	01	CT-D!	EC
	day	nit	dan	day	nit	dan	day	nıt	d&n	day	mı:	367	025	rit	d' n
Percent occurrence	2	2	2	í	2	2	2	4	3	4	2	3	2	1	_ ~
AVG thickness Kft			.22			. 19			.28	l		. 14	l		.28
AYG trap freq GHz			1.3			1.6	ŧ		.68	l		2.1	1		.95
AVG 1yr and -H/Kft	i		122			102			115			131	l		141

ECEYMIED DOCT SOMILLY															
PARAMETER	Y	ARL'	Y	J	AN-M	R.) H	PR-J	UN	31	UL-SI	ĘΡ	0	CT-D	EC
	day	nit	d&n	day	nit	ರ್ಷಗ	day	nit	dan	day	nit	den	Jay	nit	dtn
Percent occurrence	6	7	7	2	1	2	9	13	11	7	à	8	5	6	6
AVG top ht Kfc			4.8			4.8			4.6			5.5			5.0
AVG thickness Kft			. 35			.24			.39	Ĺ		.47	L		.29
AYG trap freq GHz			.79			1.8			.67			.42			1.1
AVG lyr grd -H/Kft			61			77	ł		54			56	i		56
AVG lyr base Kft			4.5	1		3.8		_	4.3		_	5. 1	i .		4.8

EVAPORATION DUCT K	STOGE	PAH	IN PI	ERCE	NT OI	CCUR	RENCE	:							
FERCENT OCCURFENCE	Y	RRL	Y	J	M-MA	ar .) Ai	P-J	JH _	Jt	JL -Si	ΕP	ō	CT-DE	:C
	dav	n11	dan	day	nit	dkn	day	nit	din	day	nit	dtr	da.	nit	付きゃ
0 to 10 Feet	7	6	6	3	2	3	15	13	14	ģ	8	8	2	1	1
10 to 20 Feet	4	6	5	4	5	4	7	10	8	4	- 7	£	2	3	2
20 to 30 Feet	7	10	9	9	11	10	10	:4	12	7	11	۹.	4	6	5
38 to 48 Feet	10	13	12	14	15	15	10	i 5	13	8	13	11	8	10	3
40 to 50 Feet	13	16	14	17	19	18	11	15	13	9	15	12	12	14	13
50 to 60 Feet	14	16	15	20	21	28	9	18	10	10	14	12	16	17	17
60 to 70 Feet	12	13	12	15	15	15	7	7	7	9	18	10	17	19	13
70 to 30 Feet	9	8	8	8	7	7	5	4	5	7	5	7	14	14	14
80 10 90 Feet	j 5	4	4	3	2	_ 3	_3	2	3	5_	4	4	- 8	. 7	_ 8
90 to 100 Feet	3	2	2	1	1	1	2	1	2	3	2	2	5	4	4
above 100 Feet	16	6	11	5	2	4	21	8	15	28	10	19	12	5	8
Mean height Feet	€8	53	61	55	59	52	66	47	5~	82	55	<u> </u>	70	€0	65

GENEPAL HETEOPOLOGY SUMMARY:

PARAMETER	YEARL	Y Y	31	าห-หละ		APF	- JUH	ž	L-SE	Р	ő	T-DE	EC
	day nit	dŁn	day	nit d	8n	day n	is din	day	n)t	dtr	dae	nit	d* r
% occur ELESE dets		0	1		0		8			6			— ა
% occur 2+ EL dc+s		9	į		8		1			9	i		e
AVG station H		339	Ì	3	83		345			379	ļ		323
RVG station -H/Kft		14	l		11		15			17			12
RVG sfc wind kis	15 14	15	18	1,7	17	14	14 14	13	12	12	16	15	16

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 34 07 N 134 36 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 47281 34 07 N 134 36 E

Radiosonde station height: 7 Feet Surface obs source: MS131 35 00 N 135 00 E

DEPOPUT OCCUPATION OF ENGLISH ON SEASONS TO CHAPTON DO TO COMPANY OF DOUCE

PERLEN! OCCURRENCE	UF E	MINI	<u>. E D </u>	SUKP	nt E-	10-54	UFFR	CE FI	P DITE	<u> E311</u>	- C 011	R FILLS	<u> </u>		
FREQUENCY	Y	EARL	ſ	1	AK-H	AR	A	PR-J	บห	JI	JL-SI	EΡ	٥,	7 - DE	EC
	Gay	nit	dan	day	กาเ	d&n	day	nit	din	day	nit	dan	day	nıt	den
100 MHz	8	8	9	*	*	+	*	*	*	8	. 6	Û	1	9	0
j 1 GHz	21	7	14) *	#	#	*	*	*	29	10	19	13	5	9
3 GHz	31	16	24	*		¥	*	*	#	37	16	26	26	16	21
6 GHz	67	56	62	*	*	4	*	*	+	62	46	54	73	66	69
10 GHz	86	ಕ2	84	+	*	*	+	*	*	88	74	77	92	98	91
28 GHz	92	98	91	f #	#	÷	*	+	*	87	_ 8\$	86	_96	_95	96

CHOEGCE POCED DUCT CHAMBON.

SURFACE BASED DUCT	SUPMARY:				
PARAMETER	YERRLY	JAH-HAR	APR-JUH	JUL-SEP	OCT-BEC
L	day nit dan	day nit dan	day nit dan	day nit den	day nit dan
Percent occurrence	1 3 3	9 9 9	0 0 0	1 0 1	2 0 1
AVG thickness Kft	.43	*	*	.20	-65
RVG trap freq GHz	.24	*	*	,35	.14
AVG lyr grd -N/Kft	698			999	335

FIEVATER BUCY SUMMARY

ELEVATED DUCT SUMMAN	":														
PARAMETER	YE	ARL	Ý.	J	AN-H	AR	AI	-8- J	אנ	J	JL-5	EP	C	CT-D	EC
	day	กาง	d&n	day	nit	din	day	nit	dan	day	nit	_dtn	day	ri t	<u>ರಕ್ಕೂ</u>
Percent occurrence	6	9	3	0	0	- 9	9	0	- 5	8	Ö	4	7	Ð	4
AVG top ht Kft			5.5	ŀ		*	!		4.6	}		8.1	i		3.9
AYG thickness Kit			.43	<u> </u>		+			.35	İ		.51	i		.42
AVG trap freq GHz			. 52			<u>*</u>			.73			.31	<u> </u>		.51
AVG lyr grd -N-Kft	}		59	1		*	į .		55	l		65	į		57
AVG lyr base Kfi	L		5.2			*	L		4,3			7.8	l	_	3.6

E-APORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

E-MPURHITUN DOCT HIS	וטעיי	7.76	10 F	FLE	11 01	, C U F 1	CHCE	•							
PERCENT OCCURRENCE	71	EARL	7	J	AH-H	38	A.	'R-J	324	3,	UL-SE	P	01	T-DE	
	day	nıt	ರಹಿಗ	day	nit	dan	day	711	ರ೩೧	dav	nit	der	dav	nit	dtn
8 to 10 Feet	7	ε	-16	3	2	3	15	13	14	9	8	8	2	1	1
10 to 20 Feet	4	6	5	4	5	4	7	10	8	4	7	6	2	3	2
20 to 30 Feet	7	19	9	9	11	10	10	14	12	7	11	_ 9	4	_ 6	
30 to 40 Feet	18	13	12	14	15	15	10	15	13	8	13	11	8	10	5
40 to 50 Feet	13	16	14	17	19	18	11	15	13	6	15	12	12	14	:3
56 to 60 Feet	14	15	_15	20	21	20	9	10	10	10	14	12	16	1.7	17
60 to 78 Feet	12	13	12	15	15	15	7	7	7	9	10	10	17	19	19
70 to 82 Feet	9	8	8	8	7	7	5	4	5	7	€	?	14	14	14
88 to 98 Feet	5	4	4	_ 3	2	3	3	2	3	5	4	4	<u> </u>	. ?	8
90 to 100 Feet	3	2	2	1		1	5	1	2	3	2	2	5	4	
above 180 Fest	16	6	11	5	2	4	21	8	15	28	16	19	12	5	8
Mean height Feel	€8	53	61	55	50	52	66	47	57	82	55	69	78	60	65

GENERAL RETEUROLOGI	Somme	<u>. </u>											
, PARAMETER	YEARL	Y	JA	H-HRR	j f	iPR-JI	UN	31	JL-SE	EP	00	T-DE	: C
	day nit	din	day	nit da	<u> 1 day</u>	nit	ರ&ಗ	day	ris t	din	dav	nit	dan
% occur ELLSB dets		3	1		3		9			- 0	i		9
% occur 2+ EL dcts		0	İ		9		0	ļ		0	l		Ü
RVG station H		341	1	31	5		344	i		376	1		358
AVG station -N/Kft		13	ĺ	1	ı [14			16	(12
AVG sfc usne Kts	15 14	15	18	17 1	7 14	14	14	13	12	12	15	15	15

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37 22 H 136 54 E (+) INDICATES INSUFFICIENT DATA Specified location: Radiosonde source : 47600 37 22 N 136 54 E Rad.osonde station height: 16 Feet Surface obs source: MS131 35 00 N 135 00 E

DENCENT OCCURRENCE	: UF E	KHHN	LED	SURFI		10-3	7 K L WI	- KI	TUNK	E 311	LUN	RPN	JE3.		
FREQUENCY	Y	EARL'	Y	J	AH-M	R R	Ai	PR-J	JH	31	JL-SI	EP _	01	CT-DI	EC
	day	nıt	d&n	day	nit	din	đay	การ	dån	day	nit	den	day	nit	der
180 MHz	T 0	9	8	0	- 0	. 0	0	. 6	0	0	9	O	Ø	8	9
1 GHz	17	7	12	5	3	4	21	9	15	30	11	26	12	5	9
3 GHz	25	13	19	18	6	8	27	14	20	38	17	27	25	16	21
6 GH≥	59	49	54	53	48	<u>5</u> 1	48	35	41	63	47	55	72	66	69
10 GHz	81	78	80	84	82	83	69	64	67	80	75	78	92	96	91
20 GHz	89	88	88	93	93	93	79	78	78	87	e 5	86	96	95	46

SURFACE BASED DUCT SUMMARY:

RATAKARA	Y	ARL'	۲-	1	H-HA	AR	R!	R-J	אט	31	UL-S	EP 93	0	CT-D	EC
li	day	nit	d‡n	day	nit	dån	day	nit	d&n	day	nit	dir	day	nit	den
Percent occurrence	2	2	- 2	1	1	1	1	3	2	4	2	3	1	1	1
AVG thickness Kft	ļ		. 37	i		.28	ļ		.26	•		. 32	i		.61
AYG trap freq GHz	·		1.2	l		1.6	l		1.4	Ì		1.1	l		.49
AVG lur grd -H/Kft			123	<u> </u>		1:1	İ		139			157			84

E: CUSTED SHIFT CHHREDY.

FFEANIER TOTI 200001	· ·														
PARAMETER	Ϋ́	ERRL.	7	J	8:1-KI	2.6	fil	R-J	UN	- 31	JL-5	EP _	01	CT-DI	EC
	day	nit	d&r	day	ntt	den	day	nit	d&r	day	nit	d&n	day	nit	dan
Fercent occurrence	4	6	5	1	0	ī	4	5	5	9	15	12	3	3	3
AVG top ht Kft			5.3	1		8.3	ì		2.9	İ		4.9	1		5.0
AVG thickness Kft			.39	<u> </u>		. 39			.27			.46			. 45
AVG trap freq GHz			.78	Г		.30			1.6			.64			.57
AVG lyr grd -N/Kft	Ī		62	1		74	ł		57	l		56	i		66
AVG lur base Ift	L		5.8			8.1	<u> </u>		2.6			4.5	<u> </u>		4.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	CCC	URRENCE	Yi	ARL	r	J	AN-M	AR	R	R-JI	JH	J	UL-SI	EP	06	T-DE	C
L			đay	nit	dan	day	nit	d3n	day	nit	dţn	da:	niz	den	day	nit	dt -
0 to	10	Feet	7	6	- 6	3	2	_ 3	15	13	14	9	3	8	2	1	
10 to	26	Feet	4	6	5	4	5	4	7	10	8	4	7	5	2	3	2
20 10	36	Feet	7	10	_ 9	9	11	10	10	14	12	7	11	9	4	6	5
30 10	40	Feet	10	13	12	14	15	15	16	15	13	8	13	11	8	10	9
40 10	50	Feet	13	16	14	17	19	18	11	15	13	9	15	12	12	14	13
50 to	60	Feet	14	16	15	28	21	20	9	10	16	10	14	12	15	17	17
60 10	70	Feet	12	13	12	15	15	15	7	7	 -	9	10	10	17	19	18
70 10	80	Feet	è	ક	8	8	7	7	5	4	5	7	6	7	14	14	14
89 to	98	Feet	5	4	4	3	. 2	_3	3	2	_ 3	5	4	4	8	_ ?	8
90 tc	100	Feet	3	2	2	1	1	1	2	1	<u>-</u>	3	- 2	2	5	4	4
above.	160	Feet	16	6	11	5	2	4	21	8	15	28	18	19	12	5	8
Hean he	1 gh	t Feet	68	53	61	55	50	52	66	47	57	82	55	64	78	63	63

YE	ARL.	Y	3	311-W	AR .	a	PR−JI	JH	JL	JL-S	Р	ee	7-D5	EC
day	nit	dŁn	day	nıt	din	day	nít	dtn	day	211	d&n	da	210	dsn
		6	I		0			O		_,	9			- 0
1		1	1		0			0			5			8
l		338	i		316			335			371			328
i		14	1		12			15			16	ŀ		13
15	14	15	18	17	17	14	14	14	13	12	12	15	15	16
	day	day nii	day nit d&n 0 1 338	day nit din day	day nit dan day nit 0 1 338	day nit dan day nit dan 0 0 1 0 328 316	day nit dan day nit dan day 0 0 1 0 338 316	day nit dan day nit dan day nit 0 0 1 0 338 316	day nit dan day nit dan day nit dan 0 0 0 1 0 0 338 316 335	day nit dan day nit dan day nit dan day nit dan 0 0 0 0 1 0 0 0 338 316 335	day nit dtn day nit dtn day nit dtn day nit 0 0 0 1 0 0 338 316 335	day nit dan day nit day nit	day nit dan day nit dan day nit dan day nit dan day nit dan day nit	day nit dan day nit dan day nit day

IREPS REV 2.1

HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 35 25 N 133 21 E Radiosonde source: 47744 35 25 N 133 21 E (+) INDICATES INSUFFICIENT DATA

Radiosonde station height: 23 Feet

Surface obs source: MS131 35 88 N 135 89 E

DEDICAL ACCUMPANCE OF ENHANCED SUBSECE-TA-SUBSECE DATED/SSM/CAM DEVICES.

PERCENT CCCO	KRENCE OF E	MINI	LED	SURF	ALE-	10-31	UKER	LE 41	בחעו	E 311	COL	6. 227.44	353.		
FREQUEN	CY	EARL'	Υ	31	IM-NE	ar -	RI	PR-J	JH.	31	JL-SI	P	00	CT-DE	C
	lday	nit	d&n	day	nit	d&n	day	nit	dŁn	day	nit	din	day	nit	dan
100 MHz		9	9	e	9	0	9	-6	8	1	8	6	8	8	e
1 GHz] 17	7	12	5	2	4	21	9	15	39	11	21	12	5	8
3 GHz	25	13	19	19	6	8	27	13	_ 28	38	17	28	25	16	20
6 GHz	59	49	54	53	48	50	48	34	4:	63	47	55	72	66	64
10 GHz	82	78	88	84	82	83	78	64	67	81	75	78	92	38	91
20 GHz	89	88	88	93	92	93	79	78	78	87	85	86	96	95	96

SORPHILE RHSED DOCL :	SUNNHKYI				
PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit den	day nit den	day wit dan	day nit den
Percent occurrence	2 1 2	0 8 0	2 2 2	5 2 4	0 1 1
AVG thickness Kft	.30	.45	.29	.23	.24
AVG trap freq GH2	1.5	.84	1.1	.93	3.1
RVG lyr grd -N/Kft	177	245	194	179	183

FFEAHIEN NOCI ZOUWHI															
PARAMETER	Y	EARL	ľ	J	AN-M	AR	A A	P-J	บห	31	よしーち	EP	0	CT-B	ΕÇ
	day	nit	dtn	day	nit	d&n	day	nit	d&n	day	การ	d&n	day	nit	dan
Percent occurrence	5	8	6	2	2	2	4	7	- 5	10	14	12	5	7	6
AYG top ht Kft			4.4	(3.3	•		3.9	l		5.5	•		4.9
AVG thickness Kft			.36			.33	l		.41			.45	<u> </u>		.23
AVG trap freq GHz			.77			. 89			.68			.44			1.1
AVG lyr grd -N/Kft			56	}		68			57			53	1		53
AVG lyr base Kft			4.1	<u> </u>		3.0	Ĺ	_	3.5	Ĺ		5.2			4.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCUPRENCE	i Y	EARL	Y	J	AH-K	AR	A	PR-J	Ut4	3	じしーら	EP	0	CT-Di	EC
	day	การ	dan	day	nit	dên	day	nit	สะก	day	กาเ	dan	day	r. 1 t	dž.
8 to 19 Feet	7	- 6	- 6	3	2	3	15	13	14	9	3	8	- 2	1	1
10 to 20 Feet	4	6	5	4	5	4	7	18	8	4	7	6	2	3	2
20 to 38 Feet	1 7	18	9	9	11	10	13	_ 14	12	7	11	9	1 4	6	5
30 to 40 Feet	10	13	12	14	15	15	10	15	13	\$	13	11	8	10	9
40 to 58 Feet	13	16	14	17	19	18	11	15	13	9	15	12	12	14	13
50 to 60 Feet	14	16	15	20	21	28	9	18	18	10	14	_12	_16	17	17
60 to 70 Feet	12	13	12	15	15	15	7	7	7	9	18	10	17	19	:8
78 to 88 Feet	, 9	8	8	3	7	7	5	4	5	7	6	7	14	14	14
80 to 90 Feet	5	_ 4	4	<u>i ३</u>	2	3	3	2	3	5	4	4	_ 9	7	3
90 to 106 Feet	3	2	2	1	1	1	2	1		3	2	2	5	4	4
above 100 Feet	16	6	11	5	2	4	21	8	15	28	10	19	12	5	8
Mean height Feet	<u>68</u>	53	61	55	56	52	66	47	57	82	55	69	79	68	65

PARAHETER	YEA	RLY		Ji	H-H	ar .	AP	Ř-Ji	ĴΚ	Jt	JL - 5[P	00	T-DE	L
1	day r	iit c	n.st	day	nit	don	day	nit	dån	day	2111	ರಹಿಣ	day	กรร	dtn
% occur ELESB dcts			8			8			0			1			9
% occur 2+ EL dcts			8			9	[8			1	[•
AVG station H		3	338			318			337			378	ļ		327
RVG station -H/Kft			14			12			14			16	l		1.2
AVG sfc wind Kis	15	14	15	18	17	17	14	14	14	13	12	12	16	15	16

Specified location:

.

Radiosonde source : 47187 33 12 H 126 13 E Radiosonde station height: 43 Feet

Surface cbs source: HS132 35 88 N 125 88 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR-ESH COM RANGES:

PERCENT OCCOR	1. 5. 11. 5. 6.		<u> </u>	,,,,,		, ,	,,,,,,,,,,						3600		
FREQUENC	Y	EARL'	Y	J	BH-HI	R	RI	アーナ	иH	Jŧ	JL-\$1	EP	00	CT-D	EC
l	day	nit	d&n	day	nit	d&n	day	nıt	d&n	day	nit	d&n	day	nit	ರಕ್ಕಿ
108 HHz	3	3	3	1	1	í	4	5	5	6	4	5	2	3	- 2
1 GHz	32	24	28	13	9	11	30	27	29	47	27	37	37	34	36
3 GHz	39	31	35	18	12	15	36	34	35	56	35	45	46	42	44
6 GHz	60	53	56	47	36	42	49	46	47	72	55	64	75	72	73
10 GHz	79	75	7?	88	74	77	65	64	64	83	75	79	89	89	89
20 GHz	86	85	85	98	87	89	73	74	74	87	_83	85	94	94	94

CHREACE RACED DECT CHMMADY.

PRRAMETER		ERRL	Y	J	AK-NA	R.	RI	R-JI	JH	J	JL-Si	EΡ	0	CT-D	EC
	day	nıţ	dŧn	day	nit	d&n	day	nit	dan	day	การ	dan	day	nit	d&n
Percent occurrence	21	28	20	12	12	12	23	29	26	33	21	27	14	18	16
AVG thickness Kft			.39	1		.28	ĺ		.47	i		.43	ŀ		. 40
AVG trap freq GHz	i .		.70	i		1.3	į		.46	ĺ		.43			.68
AVE lyn grd -N/Kfz	i		153			120	i		101			192			170

PARAMETER	Y	ARL'	Y	J	คห-หเ	AR	คร	P-J	UH	J	JL-S	EP	00	CT-DE	EC
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	กาะ	d\$n	day	nit	dîn.
Percent occurrence	46	42	44	36	39	38	42	45	44	55	47	51	51	35	43
AVG top ht Kft			4.6			4.3	ļ		3.3			6.3	i		4.4
AVG thickness Eft			.38	L		.28	l		. 44			. 42	l		.39
AVG trap freg GHz			.41			.62			.32			.36			.32
AVG lyr grd -N/Kft			66	•		63	Į		65.	1		62	[74
AVG lur base Kit			4.3	l		4.1	l		3.0			6.0	Ī		4.2

EANDONETION	DOC 1 HT	2 1 13 let	NHM:	M P	FKLF	4: 0	Casi	PENC	<u>. </u>							
PERCENT OCC	URRENCE	Y	EARLY	1	J	H-HA	R	R	PR - Ji	JH	3	UL-SE	EP	9:	CT-DE	EC
		day	nit	dtn	day	nit	dên	day	nıt	d&n	day	nıt	ರ&೧	day	nit	dŧn
8 10 19	Feet	12	11	12	5	5	5	25	23	24	14	14	14	4	3	4
10 to 29	Feet	6	9	7	6	9	8	10	14	12	5	9	6	2	4	3
20 10 30	Feet	8	11	18	11	15	13	10	15	12	i _ 7	10	8	5	6	6
30 10 40	Feet	: 1	:3	12	1€	20	18	11	14	12	7	12	9	8	8	8
48 to 50	Feet	12	14	13	20	21	28	9	11	19	9	12	10	9	12	10
50 10 60	Fees	11	12	11	18	16	17	7	?	7	8	11	9	11	13	12
60 to 70	Feet	ક	- 8	8	8	6	7	+	4	4	7	9	s	12	12	12
70 to 80	Feet	5	5	5	4	3	4	3	2	2	6	5	6	8	9	9
89 to 98	Feet	3	3	3	_ 2	1	1	2	2	2	4	_ 4	4	4	4	4
98 to 100	Feet	2	1	2	1	8	1	2	1	1	3	2	3	3	2	3
above 100	Feet	22	13	18	8	4	6	17	9	13	31	14	23	32	26	29
Hean heigh	t Feet	71	57	64	53	44	49	54	41	47	83	59	71	93	8€	89

PARAMETER	YEARL		10	H-HA	0 1	GP:	R-JU	iu I	711	L-Si	0	00	T-DE	-
T TO THIS TER	day nit											,		
% occur EL&SB dcts		7			4			8			12			3
% occur 2+ EL dcts		11			4			15			20			ē
AVG station H		337			314			340			371	l		321
AVG station -H/Kft		16	l		12			18			28			13
APG afc wind Ets	13 13	13	16	15	15	13	12	12	12	12	12	13	12	12

TREPS REV 2.1 HISTOPICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 36 01 N 129 22 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source: 47138 36 81 N 129 22 E Radiosonde station height: 52 Feet

Surface obs source: MS132 35 00 H 125 00 E

DEDIENT SCHIPPENCE OE ENHANCED CHIPPOCE-TO-CHIPPOCE PARAD/ECH/COH PANSEC

	PERCENT OCCUPRENCE	Ur E	KRRE	LED	DURF	MLE-	10-5	UKER	LERI	HUNK	/E3N	<u>- (011</u>	KHIII	<u> </u>		
I	FREQUENCY	Y	ERRL'	Υ	J	AH-M	AR .	- Ai	PR-JI	JN	J	JL-SI	EP	0	CT-DI	EC
١		day	nit	d&n	day	nit	d&n	day	ni t	den	day	mit	d&n	day	915	Can
Į	100 KHz	1	1	1	0	9	0	1	1	1	1	2	2	1	1	1
ı	1 GHz	24	17	21	9	4	7	21	12	16	34	20	27	34	39	32
Į	3 GHZ	39	22	26	12	6	_ 9	25	16	21	42	28	35	41	38	39
ſ	6 GHz	54	45	49	42	31	37	39	29	34	62	51	56	72	70	71
I	10 GHz	75	71	?3	78	71	74	58	53	55	76	72	74	88	88	88
l	20 GHz	83	82	82	89	86	87	68	- 56	67	83	81	82	93	93	93

SUPERCE PROCES BUCT CHUMADY.

SUPFACE BASED DUCT S	SUHMARY:				
PARAMETER	YEARLY	JAN-HAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit dan	day nit dan	day nit dan	day nit den
Percent occurrence	6 8 7	2 3 3	8 7 8	9 11 10	5 10 3
AYG thickness Kft	.24	.18	.17	.31	.28
AYG trap freq GHz	1.3	3.1	.85	.58	.?7
RVG lyr grd -N/Kft	247	207	292	153	337

FLEVATED DUCT SUMMARY:

ELEVATED DUCT SUMMA	?Y:														
PARAMETER	YI	EARL'	Υ	J	AN-M	AR	A	PR-JI	JH	Ji	L-SI	ŧΡ	01	CT-DI	EC -
	day	nit				din	day	nit	d\$n	day	nit	dån	day	nıt	dŧn
Percent occurrence	23	32	29	13	15	14	34	27	31	43	55	49	19	29	24
AVG top ht Kft			5.1	1		5.5	ĺ		3.8			6.2	1		4.3
AVG thickness Kft			.38			.22	L		.48			.55	L		.28
RVG trap freq GHz			.59			.94			.29			.24			.89
RVG lyr grd -N/Kft			64	(69			62			64	[63
AVG lyr base Kft			4.8			5.4			3.5			5.8			4.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

EANLOWALION TOC: WI	3.06	1011	10 6	<u> </u>	41 (1)	. CURI	FERCE			_					
PERCENT OCCURRENCE	Y	EARL'	Y.	J	RN-MI	R	AI	R-JI	JN	JI	UL-SE	Ρ	00	: - DE	C
	day	กเร	d&n	day	n13	d&n	day	กเร	din	day	nit	dtn	day	nit	dên
0 to 10 Feet	12	11	12	5	5	- 5	25	23	24	14	14	14	4	3	4
18 to 28 Feet	6	9	7	6	9	8	10	14	12	5	8	6	2	4	3
20 to 30 Feet	8	[1]	18	11	15	_13	19	15	12	7	10	8	5	. 6	5
30 to 40 Feet	11	13	12	16	20	18	11	14	12	7	12	9	8	8	;-
40 to 50 Feet	12	14	13	20	21	28	9	11	10	9	12	10	9	12	10
50 to 60 Feet	11	_12	11	_18	16	17	7	7	7	8	11	9	11	13	12
60 to 70 Feet	3	8	-8	3	6	7	4	4	4	7	9	8	12	12	12
70 to 38 Feet	5	5	5	4	3	4	3	2	2	6	5	6	8	9	9
38 to 98 Feet	3	3	3	_ 2	1_	. 1	_2	2	2	4	_4	4	4	4	4
90 to 100 Feet	2	1	2	1	- 0	1	2	1	1	3	2	3	3	2	3
above 100 Feet	22	13	18	8	4	6	17	9	13	31	14	23	32	26	29
Mean height Feet	71	_57	64	53	44	49	54	41	47	83	59	71	<u>9</u> 3	86	89

PARAMETER	Y	ARL	Ÿ	Jf	11:-11	aR .	AF	R-J	JH	Ji	/L-SI	P	00	T-DE	EC
1	day	nit	dån	day	n11	din	day	nit	din	day	013	din	day	nit	dan
% occur EL&SB dcts			2			0			3			4			2
% occur 2+ EL dcts			5			8	ĺ		6	İ		9	ĺ		2
AVG station N			325			307	i		324			357	i		312
AVG station -N/Kft			13	i		11	l		14			15	1		12
AVG sfc wind Kis	13	13	13	16	15	15	13	12	12	12	12	12	13	12	_12_

(*) INDICATES INSUFFICIENT DATA Specified location: 38 58 N 121 37 E 38 58 N 121 37 E

Radiosonde source: 54662 318 Feet Radiosonde station height:

Surface obs source: HS132 35 00 N 125 00 E

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SUPFACE RADAP/ESH/COM RANGES:

FREQUENCY	Y	EARL'	Y	Ji	ลห-ทร	AR .	R	PR-JI	JH	J	JL-SI	EP	01	CT-DI	EC
	day	nit	dån	day	nit	dan	day	nit	d&n	day	nit	d&n	day	nit	den
100 MHz	2	1	2	8	0	- 0	3	2	2	3	3	3	1	ē	1
1 GHz	27	18	23	10	4	7	26	17	21	39	25	32	34	27	31
3 GHz	34	24	29	14	6	10	32	21	27	48	34	41	41	34	38
6 GHz	57	47	52	43	31	37	45	35	40	66	56	61	72	68	70
10 GHz	77	73	75	78	71	75	63	56	60	79	75	77	88	87	88
28 GHz	85	93	84	89	86	87	72	69	78	85	83	84	94	_ 93	۶3

PARAMETER	YI	ERRL'	Ÿ	J	AH-M	RR .	AI	R-JI	UH	J	リレー51	EP	0	CT-DI	EC
	day	nit	dan	day	nıt	d&n	day	nit	dan	day	การ	d&n	day	กระ	den
Percent occurrence	13	11	12	4	2	3	19	15	17	23	25	24	6	3	5
AVG thickness Kft	l		.24	1		. 24	Ī		. 18			.21			.32
AVG trap freg GHz	l		.94	l		1.1	i		. 81			1.0	į		.90
AVG 1ur and -H/Kit	l		149			178	ŀ		178			112	1		136

のがには はないのかのかいのかない かんかんかん しゅうじゅ いかん しゅうしゅう しゅうしゅ かんしゅ しゅうしゅ しゅうしゅ しゅうしゅ しゅうしゅ しゅうしゅう

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13E

FI FURTER BUCT SUMMARY.

PARAMETER	Y	EARL	4	31	าห-หเ	P.R	ลเ	R-J	UH.	Jŧ	JL-SI	EP	00	CT-DI	EC
	day	nit	dŧn	day	nıt	dan	day	nit	dŧn	day	ការ	dŁn	day	nit	dün
Percent occurrence	4	3	3	0	2	1	4	Ž	3	10	6	8	1	1	1
AVG top ht Kft			3.6			4.8	l		3.0	ŀ		3.5	i		3.8
AVG thickness Kft	i		. 38			.39			.51			.51			.13
AVG trap freq GHz			2.2			.91			.46			.37			7.2
AVG for and -N/Kft	1		60			82	1		54	l		55	ŀ		48
AVG for base Kft	1		3.3			4.6	i		2.5	ŀ		3.2	ł		2.9

PERCENT OCCUR	RENCE	YE	ARLY	7	31	au-M	R R	AF	R-JI	JN	J	JL-5!	P	00	T-DE	C
		day	nit	d&n	day	nit	d£n	day	rit	dan	day	nit	dan	day	nit	din
8 to 18 Fe	eet	12	11	12	5	5	5	25	23	24	14	14	14	7	3	- Ŧ
19 to 20 Fe	eet	6	9	7	6	9	8	10	14	12	5	8	6	2	4	3
20 to 30 Fe	eet	8	11	19	11	15	13	10	15	12	7	18	8	5	- 6	- 6
30 to 48 Fe	261	11	13	12	16	20	18	11	14	12	-	12	9	3	8	8
40 to 50 Fe	eet	12	14	13	20	21	28	9	11	18	9	12	10	9	12	10
50 to 60 Fe	eet	11	12	11	18	16	17	7	7	7	. 8	11	9	11	13	12
68 to 70 Fe	eer	8	8	8	8	6	7	4	4	4	7	9	8	12	12	12
78 to 80 Fe	eet	5	5	5	4	3	4	3	2	2	6	5	5	8	9	9
80 10 90 Fe	eet	3	3	3	2	1	1	2	2	2	4	4	4	4	4	4
98 to 100 Fe	eet	2	<u>_</u>	2	1	9	1	2	1	1	3	2	3	3	2	3
above 108 Fe	eet	22	13	18	8	4	6	17	9	13	31	14	23	32	26	29
Hean height f	Feet	71	57	64	53	44	49	54	41	47	83	59	71	93	86	6.3

1 12	ARL'	Y	Į Ji	an-M	AR	l AF	アーチ	JN	Jŧ	JL-SE	EP	00	CT-DI	ΞÇ
day	nit	dir	day	011	din	day	การ	d£n	day	nit	den	day	711	din
		9			0			G			1			8
İ		8			9	l		0			0			8
Í		328			312			324			361			315
1		14	Į		12	l		15			18	}		12
13	13	13	16	15	15	_13	12	12	_12	12	12	13	12	12
	day	day nit	day nit dan 0 8 328	day nit dan day 0 8 328	day nit dir day nit 0 8 328	day nit din day nit din 0 0 0 0 9 0 328 312	day nit dir day nit dir day 0	day nit dtn day nit dtn day nit 0 0 0 0 0 328 312 14 12	day nit din day nit din day nit din 0	day nit dtn day nit dtn day nit dtn day 0	day nit dtn day nit dtn day nit dtn day nit 0	day nit din day nit din day nit din day nit din 0	day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day 0 <td> day nit dtn day</td>	day nit dtn day

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 36 04 H 120 19 E (+) INDICATES INSUFFICIENT DATA

Radiosonde source: \$4857 36 04 N 120 19 E Radiosonde station height: 253 Feet

Surface obs source: HS132 35 88 N 125 88 E

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR 'ESH COM RANGES:

FREQUENCY	Y	EARL'	Y	Ji	H-HE	R	AI	P-J	иN	31	JL-SI	EP	Gt	LT-DI	EC
	day	กเร	dan	day	nit	dŁn	day	nit	din	day	nit	đ ě n	day	nit	_ರಕ್ಕಿ
180 MHz	3	2	2	1	1	i	4	3	-3	2	2	2	3	2	3
1 GHz	36	20	25	11	9	18	31	19	25	37	21	53	41	32	36
3 GHz	37	27	32	15	13	14	_38_	25	31	45	29	37	58	48	45
6 GHz	59	49	54	44	37	41	51	38	44	64	52	58	77	71	74
10 GHz	78	73	76	79	74	76	67	58	63	78	73	75	98	89	90
20 GHz	86	83	84	j 89	87	88	75	71	73	84	81	83	95	94	94

SUPFACE BASED DUCT SUMMARY:

	SURM														
PARAMETER	Y	EARL'	Y	J	RN-M	AR .	_ 88	2 8-1 1	JN	Ji	JL-SI	EP	G	T-DI	EC
	day	nit	dŁn	day	nıt	d&n	day	การ	din	day	nit	n3b_	day	กเร	den
Percent occurrence	19	16	17	7	14	11	28	19	24	16	14	15	25	15	20
AYG thickness Kft			.32	i		.20	i		.37	1		.48	l		.22
AVG trap freq GHz			1.0	1		1.5	[.69			.76			.92
AVG lur grd -N/Kft	L		121	l		155	L		127	<u> </u>		103			100

ELEVATED DUCT SUMMARY:

PARAMETER	Y	ARL	Y	J	คท-หเ	RR	RF	R-J	N	Ji	JL-SI	EP	01	CT-Di	ŧŧ
	day	การ	dEn	day	nit	d‡n	day	nit	din	day	nit	d£n	day	nit	din
Percent occurrence	3	3	3	1	1	1	3	4	4	4	5	- 5	2	1	2
AVG top ht Kft			4.4	ŀ		9.2			1.9	1		3.5	l		2.9
AVG thickness Kft			.42	i		_ 17	L _		. 52	l		.67		_	.32
AVG trap freq GHz			1.5			3.9			.45			.27	Г		1.4
AVG lyr grd -H/Kft			54	[55	1		55			53			55
AVG lyr base Kft			4.0	Ĺ		9.0			1.5	Ĺ		2.9	L_		2.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT OCCU	RRENCE	YE	ARL	r	31	an-H	R:	AF	P-J!	JH	Jı	IL-SE	P	00	T-DE	:C
		day	nit	dån	day	nıt	din	day	nit	₫&n	day	nit	din	day	nıī	dan
0 to 18	Feet	12	11	12	5	- 5	5	25	23	24	14	14	14	4	3	4
10 to 20	Feet	6	9	7	6	9	8	10	14	12	5	8	6	2	4	3
20_to_30 _	Feet	3	11	18	1:	_15	13	19	15	12	_7	10	8	5_	6	6
30 to 40	Feet	11	13	12	16	20	18	11	14	12	7	12	9	8	- 9	ŝ
40 to 50	Feet	12	14	13	20	2:	28	9	11	10	9	12	16	9	12	10
50 to 60	Feet	11	12	11	18	16_	17	7	7	7	8_	_11	9	11	13	12
60 to 70	Feet	8	8	8	8	- 6	7	4	4	4	7	9	8	12	12	12
70 to 80	Feet	5	5	5	4	3	4	3	2	2	6	5	6	8	9	9
_ 80_to 90	Feet	3	3	3	. 2	1	1	2	2	2	4	4	4	4	4	4
90 to 100	Feet	2	1	2	1	0	1	2	1	1	3		3	3	2	- ;
above 188	Feet	22	13	18	8	4	6	17	9	13	31	14	23	32	26	29
Hean height	Feet	71	57	64	53	44	49	54	41	47	83	59	71	93	86	89

GENERALE METEOROFORT	301111111111111111111111111111111111111													
PARAMETEP	YEARL	· -	JF	H-H	iR	AF	P-J1	JN	Jŧ	JL-SE	P	00	T-DE	C
	day nit	d t n	day	nit	d&n	day	nit	d&n	day	nit	dtn	day	การ	d&n
% occur EL&SB dcts		0	1		0			0			9	i —		Ø
% occur 2+ EL dcts		0	1		8			0			0			8
AVG station N		332			312	l		334	Į		364	•		318
AVG station -N/Kft		15			12			16			19	ĺ		13
AVG sfc wind Kts	13 13	13	16	15	15	13	12	12	_12	_12	12	13	12	1 2_

Specified location:

37 28 N 53 58 E

(+) INDICATES INSUFFICIENT DATA

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「だけらればは、あたからいか、小女のからからなっての意味がないであるから、ままからのからなってもある。 こうこう 1 まんからしゅうしゅう .

37 28 N 53 58 E Radiosonde source : 38750 Radiosonde station height: -325 Feet

Surface obs source: MS103 25 00 N 55 00 E

PERCENT OCCURRENCE	OF ENHANCED	SURFACE-TO-S	URFACE PADAR	ESH COM RANG	GE5:
FREQUENCY	YEARLY	JAN-MAR	APR-JUH	JUL-SEP	OCT-DEC
	day nit der	day nit dan	day nit den	day nit dan	day nit dan
100 MHz	2 1 1	1 0 1	1 1 1	3 2 2	1 2 1
1 GH2	49 23 36	41 14 27	69 34 47	53 23 38	42 28 31
3 GHz	57 39 43	58 19 34	65 40 53	62 30 46	52 29 41
6 GHz	76 34 65	72 47 58	78 59 68	76 51 64	76 58 67
10 GHz	87 75 81	86 73 88	86 78 82	87 73 89	89 78 84
20 G4z	92 86 83	91 85 88	98 87 88	90 83 87	95 89 92

FARAMETER		EARL	Y	J	AH-M	1R	R!	PR-J	UN	J	JL-Si	P	00	T-D	C
	day	nit	din	day	nit	dan	day	nit	d&ก	day	nit	dan	day	nit	dtn
Percent occurrence	12	9	11	10	3	7	8	8	8	25	12	19	હ	13	18
AYG thickness Kft			#	l		*	İ		#			•			*
AYG trap freq GHz			.75	l		.71	l		.47			1.0			. 84
AVG lyr grd -N/Kft	L		224	<u> </u>		242			178			216	L		261

PARAMETER	Y	EARL	Y	J	กห-ห	RR	RI	PR-JI	UH	Ji	JL-SI	EP	00	CT-D!	EC
	day	n11	din	day	nit	din	Cay	nıt	410	day	การ	d£n	day	nít	din
Parcent occurrence	3	3	3	1	1	1	3	2	3	5	6	6	3	3	3
AVG top ht Kft	l		*	ŀ		•						•	i		*
AVG thickness Kft			.42	I		. 33			.44			.48	I		. 42
RVG trap freq GHz			.54			.59			.78			.31			.47
RVG lyr grd -N/Kft	l .		61	l		67	i		59			58	1		69
AVG lyr base Kft	ł		*	l		*			*			4			+

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT	OCC	UPRENCE	YE	ARL	1	J	an-Hi	1R	AI	R-J	HC	5	JL-SE	:P	00	:T-DE	EC
			day	nit	den	day	nıt	d&n	day	nit	din	dav	nıt	den	dau	nit	den
8 10	10	Feet	7	- 6	6	5	4	- 5	9	7	8	9	9	9	3	2	3
18 to	20	Feet	3	10	7	4	11	8	2	7	5	3	11	7	3	10	7
20 tc	30	Feet	5	11	8	_ 5	12	9	3	10	7	4	11	8	6	12	9
30 to	40	Feet	6	11	8	7	13	18	4	10	7	5	12	8	6	:0	- 8
48 to	50	Feet	7	12	18	و ا	13	11	5	16	8	7	12	18	7	12	10
58 to	€0.	Feet	8	11	9	9	12	::	6		7	7	19	9	8	12	10
68 to	70	Feet	7	<u> </u>	8	8	10	9	4	6	S	6	8	7	18	12	<u> </u>
70 10	88	Feet	5	6	5	6	6	6	3	4	4	4	5	4	7	٤	7
80 to	98_	Feet	4	3	4	5	3	4	3	3	3	_ 4	3	4	5	5	5
90 10	109	Feet	3	2	3	3	2	3	3	5	2	3	2	2	4	3	3
above	180	Faet	45	19	32	37	12	25	57	30	44	47	18	32	41	14	27
Hean he	e i gh	1 Feet	109	67	88	97	58	77	125	83	164	188	65	86	104	63	83

PARAMETER	YEARLY	JAH	-HAR	APR-JUN	JUL-SEP	OCT-DEC
	dan nit di	n day n	it den	day nit dar	dau nit den	day nit den
% occur EL&SB dcts		8	0	8	1	0
% occur 2+ EL dcts		8	9	0	0	9
AVG station h	3:	4	328	338	353	326
AVG station -N/Kft		14	12	14	16	14
AVG sfe uind kts	9.8 8.7 8	9 10 9	.3 9.4	9.4 9.3 9.3	9.2 8.9 9.1	8 0 7.3 7.7

HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 32 00 H 34 49 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 40179 32 00 N 34 49 E

Radiosonde station height: 98 Feet

Surface obs source: HS141 35 00 H 35 60 E

PEFCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

PERCENT OCCURRENCE	Ur C	KULK	CED .	JURF	HC E-	. 0 - 3	UR F CH		UDUK.	E 211	CON	L LITT	353.		
FREQUENCY	Y	EARL'	Y	J1	HH-H	R.	AI	PR-J	UN	Ji	JL-SI	ΕP	0.	T-D!	EC
	day	nst	d&n	dav	nit	dan	day	nit	dŁn	day	nit	d&n	day	nit	dan
100 MHz	4	- 5	4	2	4	3	5	6	5	5	- 5	- 5	2	4	3
1 GHz	41	29	35	23	23	23	48	3€	42	59	36	47	35	22	28
3 64≈	48	37	42	28	29	28	54	41	48	68	47	57	42	32	37
6 GHz	59	62	65	51	47	49	71	69	65	84	75	79	72	64	68
10 GH≥	88	85	86	82	75	78	88	83	86	93	92	92	90	88	89
28 GH2	94	_ 92	_93	92	85	89	93	91	92	96	_95	96	95	95	95

SUPPORE ROSED DUCT SUMMARY:

IREPS REV 2.1

51	JFFACE BASED DUCT	รบทห	HPY:													
Γ	PARAMETER	Y	EARL'	Y	3	AN-M	AR	Al	PR-JI	UN	J	JL-Si	P	00	T-D	EC
L		Jay	nı\$	din	day	nit	dûn	day	nit	d&n	day	n13	d&n	day	กาง	de
П	Percent occurrence	26	25	22	11	21	16	24	38	27	31	29	3ð	12	21	17
10	AVG thickness Kft	1		.40	İ		.29	1		.41	1		.51)		.41
11	AVG trap freq GHz	l		.46	ŀ		.58	l		.42	l		.49	Į .		.43
L	AVG for grd -N/Kft	<u> </u>		106	Ĺ		165			105	L		103	[111

FIFVATED DUCT SUNHARY:

ELEANIER ROCI SOUNDS	···														
PARAMETER	Y	ERRL'	Y	31	AH-H	R	AF	2K+JI	184	31	JL-5	EP	00	T-DI	EC
	day	nıt	din	day	ni.	d&n	day	nit	dan	day	nit	den	day	nit	d&n
Percent occurrence	24	31	27	10	15	13	25	33	29	44	54	49	17	29	19
AVG top ht kft			2.7			2,9			1.8	ĺ		2.9			3.3
AVG thickness kft			.62			.39			.63			.91	L		. 5 3
AVG trap freq GHz			.33	i		.56			.23			.11			.41
RVG lyn grd -H/Fft			59	I		58	ĺ		58			63			57
AVG lur base Kft			2.2			2.5			1.3			2.2	l		2.8

E-APORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PERCENT OCC	URRENCE	Y	ARL	· -	J	AN-MI	AR	Al	R-J	JH	J1	11-58	Р	0.	T-DE	Ċ
		dav	ոււ	dŁn	day	nit	din	day	ոլե	der	day	011	dte	day	nit	oin
0 to 10	Feet	4	4	4	4	7	5	5	6	6	3	2	3	1	2	2
10 to 20	Feet	4	7	5	4	12	8	4	7	5	3	3	3	4	5	4
20 to 30	Feet	7	10	8	12	13	12	7	11	و		6	5	6	. 9	_ 7
30 to 40	Feet	10	14	12	16	16	16	13	17	13	5	9	7	8	13	. 3
40 to 50	Feet	13	15	14	18	18	18	12	16	14	7	14	11	12	16	14
50 to 60	Feet_	_11_	14	12	13	11	12	8	13	_ 11	8	16	12	13	16	15
60 to 70	Feet	9	10	9	8	-6	?	7	7	7	7	12	10	12	13	12
70 to 90	Feet	6	7	€	5	4	4	5	4	4	€	8	7	8	16	٩
80 to 00	Feet	3	3	_ 3	_2	_ 2	2	2		3	4	ε	j	4	5	. 5
90 to 100	Feet	2	2	2	1	0	1	3	1	2	4	3	3	3	3	-3
above 100	Feet	33	14	24	17	11	14	37	18	28	48	2:	34	29	8	15
Hean height	Feet	91	63	77	66	53	59	94	65	79	114	76	95	88	59	74

GENERAL METEGROLOGY SUNHARY:

PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit din	day nit dan	day nit dên	day nit dan	day nit dt i
% occur ELLSB dcts	3	8	3	6	1
% occur 2+ EL dcts	2	9	2	5	1
AVG station N	339	325	339	357	336
RVG station -N/Kft	18	14	20	23	15
AVG sfc wind Kis	11 11 11	13 12 13	11 12 11	9.3 10 9.5	10 18 19

33 49 N 35 28 E Specified location: 35 28 E Radiosonde source : 40100 33 49 N

(*) INDICATES INSUFFICIENT DATA

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52 Feet Radiosonde station height:

Surface obs source: MS141 35 99 H 35 98 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR FSM COM RANGES:

FREQUENCY	Y	EARL	Ÿ	J	AN-M	AR	RI	R-J	UN	J	JL-S	ΕP	01	CT-D	EC
1	day	nit	den	day	nit	d&n	day	nit	d&n	day	nit	den	day	nit	dan
100 MHz	2	1	1	1	1	1	2	1		3	1	2	1	1	1
1 GHZ	37	18	28	20	13	17	43	22	32	54	25	39	33	11	22
3 GHZ	44	24	34	24	16	28	49	24	37	63	34	49	48	20	38
6 GHz	67	53	69	49	37	43	68	47	57	81	68	75	71	57	64
10 GHz	87	81	84	81	79	76	86	78	82	92	89	91	89	85	87
20 SHz	94	98	92	92	82	87	93	88	98	95	95	95	95	94	94

CHPEACE BASED BUCT CHMMADY.

PARAMETER	Y !	ERRL	1	J	คน-ห	AR	AI	R-JI	JH	Jt	JL-SI	P	06	T-DI	EC
	day	nit	den	day	nit	d&n	day	nit.	₫&n	day	nıt	d&n	day	nıt	din
Percent occurrence	14	7	11	8	5	7	17	8	13	21	11	16	9	5	7
AYG thickness Kft			.29			.27	İ		.31	l		.26	!		.31
AVG trap freq GHz	į .		.88	l		1.1	Į .		.90	ł		.95			.61
AVG lyr grd -H/Kft	ĺ		129	ŀ		158	l		112			185			142

PAPAMETER	ΥĮ	EARL'	Y	Ji	311-H	AR	H)	PR-JI	JH.	31	JL-SI	ĒΡ	00	CT-DE	EC
	day	១១៩	dan	day	nit	din	day	nit	den	day	210	den	day	nıt	đ٤٠
fercent occurrence	16	19	17	3		3	19	16	18	31	44	38	9	13	i
AVG top ht Kft			2.3	l		1,8	ŀ		2.2	ŀ		3.2			2.1
AVG thickness Kft			.48	1		.29	i		. 50			.69			. 45
RVG trap freq GHz			.56	Ī		1.1			.41			.19			.5
AVG lyr grd -N/Kft			57	l		57			55			69			5
AYG iyr base Kft	ł		1.9	!		1.6			1.7	i		2.5	i		1.

<u>EVAPOI</u>	RAT	TOH 1	DUCT HIS	STOG	RAM_	IN P	ERCE	NT O	CCUR	RENCI	<u> </u>							
PEPC	EHT	OCC	URPEHCE	Y	EARL'	¥ —	J	AN-M	BR	A:	PR-J	NU	J:	JL-Si	ΕP	01	CT-DE	EC
				day	nit	den	day	กเร	d&n	day	nit	d&n	day	nit	den	day	nıt	dtn
8	to	10	Feet	4	4	4	4	7	5	5	- 6	6	3	2	3	1	2	2
19	to	20	Feet	4	7	5	4	12	8	4	7	5	3	3	3	4	5	4
_ 20	to	30	Feet	7	10	8	12	13	12	7	11	9	4	6	5	6	9	7
30	to	40	Feet	10	14	12	16	16	16	10	17	13	5	9	7	8	13	10
48	to	50	Feet	13	16	14	18	18	18	12	16	14	7	14	11	12	16	14
50	10	68	Feet	11	14	12	13	11	12	8	13	11	i a	16	12	13	16	15
60	10	70	Feet	9	10	9	8	- 6	7	7	7	7	7	12	10	12	13	12
70	10	88	Feet	6	7	6	5	4	4	5	4	4	6	8	7	8	10	9
ខទ	to	90	Feet	3	3	3	2	2	2	! 2	1	2		- 6	5	4	5	5
98	10	100	Fest	2	2	2	1	ક	1	3	i	2	4	3	3	2	3	
20.	SUE	100	Feet	33	14	24	17	11	14	37	18	28	48	21	34	29	8	19
ובפא	n h	s i ah		91	63	77	3.5	53	50	مه ا	65	70	11.4	7.5	95	00	50	7.1

PARAMETER	ΥE	HRL	Y	31	4H-H	RR .	กิโ	R-JI	JH	JU	L-SI	ΕP	00	T-DE	C
	dav	nit	d&n	day	r: 1 1	den	day	nit	den	day	nıt	den	day	nit	den
% occur EL459 dcts			2			0			2			4			1
% occur 2+ EL dcts			1			0			2	i		4			1
AVG station N			342	ĺ		324			344			362			338
AVG station -Wkft			17	ļ		14	İ		18			20	!		15
AVG sfc wind Kis	11	11	11	13	12	13	11	12	11	9.3	10	4.5	10	10	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 34 40 N 32 49 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 17603 34 40 N 32 49 E

Radiosonde station height: 371 Feet Surface obs source: HS141 35 00 N 35 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM.COM RANGES:

CUCCHI OCCONNEGE	<u> </u>		<u> </u>	9051		<u>, , , , , , , , , , , , , , , , , , , </u>	300	<u> </u>	IMITE			P. 11111			
FREQUENCY	Y	EARL'	Y	J	AN-M	AR	A N	PR-J	אנ	Ji	UL-SI	EP	- 01	CT-DE	EC
i	day	nit	d&n	day	nit	d&n	day	nit	dan	day	n <u>i</u> t	dsn	day	nit	d&n
100 MHz	2	1	2	1	0	1	2	1	1	6	4	5	0	9	0
1 GHz	37	18	28	19	12	16	41	21	31	58	31	44	38	9	19
3 GHz	43	24	33	23	15	19	47	23	_ 35	66	48	53	36	17	27
6 GHz	€6	52	59	47	36	42	66	46	56	83	71	77	69	56	€Z
10 GHz	87	81	84	89	70	75	86	78	82	92	98	91	89	85	87
20 GHz	93	99	92	92	82	87	92	88	99	95	95	95	94	93	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	YER	RLY		J	AH-M	AR	A	R-J	JН	J	JL-SE	EP.	00	T-DI	EC
	day r	nit c	n.st	day	nít	d&n	Cay	nit	dŁn	day	nıt	dan	day	nit	dan
Percent occurrence	11	7	9	4	3	4	10	5	8	25	16	21	3	2	3
AVG thickness Kft			. 34			. 26			.40			.53			.21
AVG trap freq GHz	ľ	1	1.1			.62			.67			.31	l		2.7
AVG lyr grd -N/Kft		1	197			210			155			94			328

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Υ	Ji	AN-N	AR	A	R-J	UH _	Ji	JL-SI	EP T	Ŏ	CT-DI	EC
	day	nit	dkn	day	nit	d&n	day	nit	d&n	day	110	dan	day	nit	dsn
Percent occurrence	15	14	15	4	6	5	19	13	16	22	26	24	14	12	13
AVG top ht Kft			3.1	ı		3.6			2.7	l		2.6	i		3.5
AVG thickness Kft	Ĺ	_	.41			.27			.39	İ		. 65			. 23
RVG trap freq GHz			.94			1.3			.64			.25			1.6
AVG lyr grd -H/Kft			60			72	ŀ		54			58			55
AVG lyr base Kft		_	2.8			3.4			2.4	1		2.1			3.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENC	E Y	EARL	Y	J	RH-M	RR	A	R-J	111	Ji	JL~S	P	00	T-DE	EC -
	day	nit	d&n	day	nıt	d&n	day	nıt	d&n	day	nit	dan	day	nit	<u>d</u> &n
0 to 10 Feet	-) 4	4	4	4	7	5	5	- 6	6	3	2	3	1	2	2
10 to 20 Feet	4	7	5	4	12	8	۱ ۹	7	5	3	3	3	4	5	4
20 to 30 Feet	7	10	8	12	13	12	7	_11	9	4	6	5	6	9	_ 7
30 to 40 Feet	10	14	12	16	16	16	10	17	13	5	9	7	8	13	10
40 to 50 Feet	13	16	14	18	18	18	12	16	14	7	14	11	12	16	14
58 10 68 Feet	11	14	12	13	11	12	8	13	11	8	_16	12	13	16	_ 15
60 to 78 Feet	9	10	9	8	6	7	7	7	7	7	12	10	12	13	12
70 to 89 Feet	6	7	6	5	4	4	5	4	4	6	3	7	8	10	9
80 to 90 Feet	3	3	3	_2	2	2	2	1	2	4	6	5	4	5	5
98 to 100 Feet	2	2	2	1	8	1	3	1	2	4	3	3	2	3	3
above 180 Feet	33	14	24	17	11	14	37	18	28	48	21	34	29	8	1.4
Hean height Feet	91	63	77	66	53	59	94	65	79	114	76	95	88	59	74

PARAMETER	YEARLY	JAN-NAR	APR-JUN	JUL-SEP	OCT-DEC
		day nit dan	day nit din	day nit dan	day nit den
% occur EL&SB dcts	8	8	0	1	9
% occur 2+ EL dcts	1	8	. 2	1	1
AVG station N	323	309	323	338	322
AVG station -N/Kft	14	11	15	18	13
AVG sfc wind Kts	11 11 11	13 12 13	11 12 11	9.3 10 9.5	10 10 10

IREPS REV 2.1

Specified location: 35 12 N 33 18 E 35 12 N 33 18 E Radiosonde source : 17606

(*) INDICATES INSUFFICIENT DATA

.

735 Feet Radiosorde station height:

Surface obs source: MS141 35 00 N 35 00 E

FEXCENI L	JULUKKENCE !	UP EI	MHHM	LED :	SURF	HLE-	10-50	SKEHI	.E K:	HULF	ESFI	COL	-KHVI	3E 5:		
FREC	SUENCY	71	EARL'	Y	j ji	וא-או	ar ,	AI	2K-JI	JH	J	JL-SI	EP	0	CT-DI	EC
		day	nıt	d&n	day	nit	dan	day	nit	d&n	day	nit	dan	day	nit	din
100	HHZ	0	3	2	0	0	9	1	3	2	0	7	4	8	1	1
] 1	GHz	34	22	28	17	11	14	38	28	33	49	39	44	30	11	20
3	GHz	39	29	34	21	14	17	44	32	38	57	48	53	37	20	28
6	GHZ	64	55	69	46	36	41	63	53	58	78	75	76	69	58	63
10	GHz	36	82	84	89	69	75	85	80	82	90	92	91	89	85	87
29	GHZ	93	90	92	92	82	87	92	89	90	94	96	95	94	94	94

SURFACE BASED DUCT :	SUMM	RY:													
PARAMETER	YE	ARL'	7	J	คห-หล	R.	Al	R-JI	ИN	J	JL-SI	P	0	CT-DI	EC
	day	nit	d&n	day	nıt	dkn	day	nit	d&n	day	nit	d&n	day	nıt	dtn
Percent occurrence	2	14	8	1	2	2	3	17	16	2	29	16	3	6	5
AYG thickness Kft	1		.37			. 24			.40	i		. 55	1		.30
AVG trap freq GHz	İ		. 28	l		1.6	i .		. 42	1		.30	ŀ		1.3
AVG lyr grd -N/Kft	L		133			186			86			102			157

ELEVATED DUCT SUMMARY:

PARAKETER	YERRLY day nit dan			Ji	an-M	R	Āſ	R-JI	UN	Ji	JL-SI	Р	01	CT-DI	EC
	day	nit	ವ ಹಿಗ	day	nit	d&n	day	nit	den	day	nit	d&n	day	nit	d ² n
Percent occurrence	8	16	12	4	5	5	6	15	11	16	32	24	5	11	8
AVG top ht Kft	i		3.0			3.9	İ		2.1	•		2.9			2.9
AVG thickness Kft		_	.37	L		.21			. 35			.68			. 32
AVG trap freq GHz			.77			1.3			.62			.22			.93
AVG lyr grd -N/Kft	İ		60			71			55	Ī		58			55
AVG lyr base Kft	L		2.7	L		3.8			1.8	L		2.5			2.6

EVAPORATION DUCT HISTOGRAM IN PEPCENT OCCURRENCE:

PERCENT	OCC	URRENCE	Y	EARL	?	3	ลห-ห	AR.	H	R-J	ŪН	J1	UL-SI	P	01	CT-DE	:Ç
			day	กาะ	d&n	day	nit	dtn	day	nit	d&n	dav	nit	d&n	day	011	d*n
0 to	10	Feet	4	4	4	4	7	5	5	6	6	3	2	3	1	2	2
18 10	28	Feet	4	7	5	4	12	8	4	7	5	3	3	3	4	5	4
20 to	30	Feet	7	10	8	12	13	12	7	11	9	4	5	5	5	9	7
30 10	40	Feet	10	14	12	16	16	16	10	17	13	5	9	7	8	13	:0
40 to	58	Feet	13	16	14	18	18	18	12	16	14	7	14	11	12	16	14
50 to	60	Feet	11	14	12	13	11	12	_8	13	11	8	16	12	13	15	15
68 to	78	Feet	9	10	9	8		7	7	7	7	7	12	18	12	13	12
70 to	80	Feet	6	7	6	5	4	4	5	4	4	6	8	7	8	10	÷
80 to	90	Feet	3	3_	3	2	2	2	2	i	2	4	6	5	4	5	5
90 to	100	Feet	2	2	2	1	9	1	3	1	2	4	3	3	2	3	3
above	100	Feet	33	14	24	17	11	14	37	18	28	48	21	34	29	8	19
Hean he	i ghi	t Feet	91	63	77	66	53	59	94	65	79	114	76	95	88	59	-4

PARAMETER	YEARLY	•	JAN	-MAR	AFR-J	UN	JUL-SEP	OCT-DEC
	day nit	din	day n	ıt din	day nit	den	day nit da	in da nit dan
% occur El.&SD Gcts		1		0		1		2 0
. occur 2+ EL dcts		1		0	i	1		3 e
AVG station N		317		312	l	312	33	22 321
AVG station -N/Kft		12		12	l	12	:	13
AVG sfc uind Its	11 11	11	13	12 13	11 12	11	9.3 10 9.	5 10 10 10

HISTOFICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

(*) INDICATES INSUFFICIENT DATA Specified location: 37 54 N 23 43 E Radiosonde source : 16716 37 54 N 23 43 E

49 Feet Radiosonde station height:

Surface obs source: MS142 35 00 N 25 00 E

PERCENT OCCUPPENCE OF ENHANCED SUPFACE-TO-SUPFACE RADAR/ESM COM RANGES:

FREQUENCY	Y	EARL'	Y	J	RN-M	iR	AF	R-JI	JN	Jı	JL-SE	P	00	T-DE	C
L	day	nit	d&n	day	nit	dàn	day	nit	d&n	day	nıt	d&n	day	nit	d\$n
100 HHz	1	8	1	0	- 6	0	2	1	1	2	1	1	1	0	1
1 GH2	37	20	29	19	9	14	48	28	38	54	32	43	27	11	19
3_GH <u>z</u>	44	25	_35	24	11	_18	_55	_32	44	63	41	52	36	17	27
6 GHz	65	50	58	47	35	41	69	49	59	80	56	73	65	50	58
10 GHz	84	77	81	77	71	74	83	72	78	90	86	88	86	81	83
20 GHz	91	88	89	_88	_86	_87	90	84	87	93	92	92	93	91	92

SOREHCE PHRED DOCL S	SUMMERY:													
PAPAMETER	YEARL	Y	JI	AN-M	AR .	A	-71	JH	- 30	UL-S!	EP	-01	T-D	33
	day nit	d&n	day	nıt	dsn	day	nit	dan	day	nit	d&n	day	nıt	dt a
Percent occurrence	9 3	6	0	1		20	5	13	10	- 5	8	7	2	ัร
AVG shickness Kft	Į	. 32			.27	i		. 29	1		.34	l		.39
AVG trap freq GHz	1	. 69			.35			1.2	ĺ		.53	1		.62
AVG lur grd -N/Kft	L	184	L		382			139	L		113	L		160

PARAMETER	Y	EARL'	Y	J	AN-M	RR	A	PR-J	אנ	J	JL-5	EP	00	T-DE	C
	day	nıt	d&n	day	nit	dt n	day	nıt	dan	day	nit	d&n	day	nit	d&n
Percent occurrence	8	8	8	6	8	7	5	4	5	11	11	11	8	8	8
AVG top ht Kft	l		5.2			6.1	1		3.2	1		7.1	İ		4.3
RVG thickness Kft	L		. 26	l		.23	l		.19			.32	_	_	.28
AYG trap freq GHz			1.4			1.3			2.6			.70			1
AVG Tyr grd -N/Kft	l		56			59	į		54	i		55			57
AVG lyr base Kft			5.0	ĺ		5.9	ĺ		3.0	ĺ		6.9	ſ		4.1

EVAPOPATION DUCT	HISTOG	KHM_	IN P	FACE	NT DI	COB	KENCI				_		_		
PERCENT OCCURREN	CE Y	'EARL	Y	J	AN-M	AR	AI	PR-J	UN	J	JL-S!	ĒΡ	O'	.T-DE	C
[gay	nit	d&n	iday	nit	dan	day	mit	den	day	711	den	Cay	nıt	dan
8 to 18 Feet	5	5 5	- 5	6	6	6	7	7	-7	5	- 5	5	3	3	3
10 to 20 Feet	5	7	6	7	9	8	j 5	8	7	3	4	3	4	7	5
20 to 30 Feet	7	11	9	111	15	_ 13	7	13	19	4	6	5	8	10	. 9
30 to 40 Feet	9	14	12	14	18	16	9	13	11	5	10	7	10	14	12
40 to 50 Feet	11	14	12	16	18	17	8	11	19	6	11	8	13	:7	15
50 to 60 Feet	9	_ 11	10	12	13	12	6	?	7	6	16	8	13	15	14
60 to 78 Feet	7	8	8	7	7	7	5	6	5	6	9	8	11	11	11
70 to 80 Feet	5	6	5	1 4	4	4	3	4	4	6	8	7	7	7	7
80 to 90 Feet	4	3	3	3	1	_ 2	3	_ 2	3	5	_ 5	5	5	4	4
90 to 100 Feet	3	2	2	2	1	1	2	2	2	4	3	4	3	2	- 3
above 100 feet	34	19	27	19	8	14	43	26	35	51	30	46	24	19	17
Hean height Fee	91	68	88	67	49	_ 58	101	75	88	117	87	102	88	59_	70

PARAMETER	YE	ARL	Y	_ Ji	าน−ห	AR.	AF	R-J	หบ	Jŧ	12-51	93	- 00	T-D1	C
	day	nit	d&n	day	nit	d&n	day	nıt	dan	day	nit	d&n	day	nit	dt n
% occur EL&SB dcts			8			9		_	8			0			o
% occur 2+ EL dcts	ļ		8	j		Ð	1		8			9	j		0
AVG station N			329	l		320	İ		336			336	:		329
AVG station -N/Kft			13	1		12	l		14			14	1		13
AVG sfc uind Kts	13	12	12	14	14	14	12	11	11	12	12	12	13	13	13

Specified location: 32 04 H 20 16 E

Radiosonde source : 62053 32 04 N 20 16 E

Radiosonde station height: 427 Feet

Surface obs source: MS142 35 69 N 25 00 E

PEWFENT OCC - FENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

CENTERS OFF CHEE	Jr	man	LED :	50r.		10-24	JE F TI	6 57	AT-LIN	E 311		61111	<u> </u>		
FREQUENCY	Y	EARL'	Y	T Ji	M-HA	?R	A	R-J	JN	JI	JL-SI	ĖF	0	CT-D	EC
	day	nit	d&r.	di	nit	dan	day	art	din	day	nit	dân	day	nıt	d2n
100 KHz	2	0	1	T 1	-0	1	2	8	1	2	9	1	*	*	*
1 GHz	42	21	30	24	٤	16	47	26	37	56	36	43	i +	¥	*
3 GHz	49	26	38	23	18	20	53	38	41	65	39	52	+	ŧ	-
6 CHz	66	49	57	31	34	42	6.5	47	5?	81	65	73	*	*	-
10 GHz	84	76	80	75	71	75	85	71	76	98	٩5	88	-	*	*
20 GH±	98	87	83	0.0	86	87	88	_84	9€	93	91	92	*	*	7

(*) INDICATES INSUFFICIENT LATE

15.1

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SUPFACE BASED DUCT SUHMAPY:

PARAMETER	Y	RRL'	7	J,	id-M	35.	H	R-3	JH :	J	UL-SI	P	Ö	CY-PE	C
	day	nit	dan	dav	nit	dşn	day	nit	din	day	nit	dŧr.	day	211	d&n
Percent occurrence	9	9	4	- 8	- 0	4	è	9	5	17	9	7	9	9	- 6
AVG thickness Kft			.51	i		. 49	}		. 60			.35	ļ		>
AVG trap freq GHz			. 53	ļ		. 46	l		. 35			.77	ĺ		+
AVG lyn and -N/Kft			137	L		88	l		233			99			

ELEVATED DUCT SUNHAPY:

PARAMETER	Υİ	ERRL	Υ	36	11-11	ar.	Al	PR-JI	JN	J	IL-Si	E:>-	0:	CT-DI	EC .
	day	nit	dŧn	dan	rit	dan	day	21.0	din	day	nıt	dtn	day	nit	din
Percent occurrence	13	0	7	-2	0	1	15	8	8	26	0	13	9	0	- 5
AVG top ht Kft			2.3			*			2.5	1		2.3	i		2.2
AVG thickness Kft			.49	l		. 21			.53			.63			. 57
AVG trap freq GHz			.81	Γ^-		1.2			.87			.27			.88
AVG lyn grd -N/Kft			72			+	l		73	İ		67			77
AVG for base ift			2.2			2.9	l		2.1	l		1.9	ı		1.9

EVAPOPATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT OCCU	RRENCE	YE	PRLY	7	J	AH-M	AR _	A'	<u> </u>	JN	71	"L-SI	E P	00	T-DE	Eu
		day	mit	din	day	nit	den	day	23.7 E	d&n	day	n1"	oten	day	n11	dan
0 :0 10	Feet	5	5	5	6	6	6	7	?	7	5	- 5	5	3	3	3
10 to 20	Feet	5	7	6	7	9	3	5	3	7	3	4	3	4	7	5
20 to 30	Feet	7	11	9	11	15	13	7	13	10	4	6	5	8	10	9
30 to 40	Feet	9	14	12	14	18	16	9	13	1:	5	10		16	14	12
40 to 50	feet	11	14	12	16	18	17	8	11	18	6	11	8	. 3	17	;5
50 to 60	Fee.	9	11	10	12	13	12	6	7	. 7	6	10	8	13	:5	14
60 14 70	reet	7	8	8	7	7	7	5	- 6	- 5	6	9	ક	11	1.	71
78 to 88	Feet	5	6	5	4	4	4	3	4	4	€	9	7	7	7	7
80 to 46	Feet	4	3	3	:	1	2	3	3	3	_ 5	5	5	5	4	4
98 10 100	Feet	3	2	5	2	1	1	2	5	2	4	3	4	3	2	3
atove 180	Feet	34	19	27	19	8	14	43	26	35	51	39	48	24	10	17
Hean haight	Feet	91	68	80	67	49	58	121	75	88	117	87	102	80	59	79

PARAMETER	48	ORL'	Y	Ji	11-116	AR	S.	F-J	UN	31	<u>i</u> L-51	ĘΡ	0	CT-DI	EC
	day	การ	den	day	***	der	Jay	111	nSb.	day	***	d&n	da:	p * *	ಡ್ರೇ ಬ
: occur ELLSB dcts			1			9			2			3			3
% occur 2^ EL dcts			0			9	l		1	İ		Ü	į		9
AVG station N			304			296			326			354	1		328
AVG station -N-Fft			14	1		3.3			15	İ		21	i		12
AVG sic uird fts	13	12	12	1-	14	14	12	11	11	12	12	12	13	13	13

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

Specified location: 35 19 N 25 10 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 16754 35 19 N 25 10 E Radiosonde station height: 66 Fees

Surface obs source: M3142 35 00 H 25 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE PADAR/ESH/COM RANGES:

THE CONTRACT OF THE PARTY OF TH				<u> </u>					120.00				<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		
FREQUENCY	Y	EARL	Ý	J	AH-HI	R	A	PR-J	CH	J	JL -\$1	EP T	00	CT-DE	EC
i	day	nit	dŁn	day	nit	dan	day	nit	d£n	day	nit	dŁn	day	1113	d\$n
100 MHz	- 2	<u>:</u>	2	1	8	1	4	2	3	4	2	3	1	1	
1 GHz	40	22	31	24	16	17	31	38	41	€9	35	47	26	12	19
3 GHz	47	28	_37	29	13	21	58	35	46	68	44	50	34	19	27
€ SHz	67	52	59	51	36	43	70	51	€1	83	68	76	64	31	58
10 GHz	85	78	82	75	71	75	84	74	79	91	86	S.	86	81	83
20 GHz	91	89	99	89	86	87	98	25	88	94	92	93	93	92	92

SUPFACE BASED DUCT SUMMARY:

				_												
1	PARAMETER	71	E#SL.		31	AN-H	RR	RI	PR-JI	JN	J1	りしーら	EP -	31	CY-DI	FC
L		day	1152	d2n	gay	nit	dan	day	กiเ	d&n	day	1112	at n	day	CIL	dŁn
P	ercent occurrence	15	7	11	9	3	6	21	9	15	23	18	17	5	- 5	5
ļ e	VG thickness Kft	1		. 35	1		.31	ı		.41			.42	1		.27
19	VG trap freq GHz	İ		. 46	i		.61	į		.52			. 43	l		1.1
l a	VG lyr grd -N/Kft	i		131	i		119			123			97	:		139

ELETHIED DUCT SUNTING	- 1 -														
PRPAMETER	Ÿ	EARL	۲	- 31	H-H	ìR	B:	5-1	эÑ	Ji	JL-51	P	9	CT-D	EC -
	بريان	2110	ರಕ್ಷಣ	day	nit	dln	day	nit	đãn	day	1:5	dŁn	day	nit	dkn
Percent occurrence	19	33	26	14	20	17	16	36	26	28	47	38	17	29	23
AVG top hs Kft			4.2	1		4,7	(3.5			4.8	1		4.7
AVS thickness Kft			.37	L		.32	Ĺ		.41			.43	L		.33
AVG trap freq GHz			. 45			.55	[.37	i		.33			.56
AVG lyr grd -N/Kft			52	ŀ		68	1		61			69	•		66
AVG lun base Kft			4.8			4.4	Ĺ		3.2			3.7	L.,		4.5

E/APORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCU	RRENCE	Υi	BRL'	′	J	าห-หา	AR .	A	P:7-J:	JH	J,	ا\$-ياز	ĘΡ	O,	T-DI	EC .
L			day	nit	dan	day	nit	cin	day	nit	den	day	nit	dtn	day	nit	din
0 to	16	Fest	5	5	-5	6	Ē	6	7	7	7	5	5	5	3	3	
16 15	20	Feet	5	7	6	7	9	8	5	8	7	3	4	3	⊀	7	5
20.0	30	Feet	7	11	9	11	15	13	7	:3	10	4	5	5	8	19	9
30 00	46	Feet	, 5	14	:2	14	15	16	3	13	11	5	10	7	10	14	12
40 20	50	7961	11	14	12	16	18	17	8	11	เข	6	1:	ક	13	17	:5
_ 50 to_	60	Feet	9	11	19	12	13	12	6	_ 7	. 7	6	10	8	13	15	14
60 10	20	Feer	7	3	8	7	7	7	5	5	5	ε	>	8	11	11	11
/8 to	88	Feet	5	6	5	ب	4	4	3	4	4	6	8	7	7	7	7
86 to	98	Feet	4	3	3	3	1		3	2	3	3	5	3	5	4	4
98 40	100	Feet	3	2	2	2	1	1	2	2	2	4	3	4	3	2	3
abouc	100	Feet	34	19	27	19	3	14	43	26	35	5:	38	48	24	19	17
llean he	1 ght	Feet	91	63	36	67	49	58	ខេរ	75	88	217	87	162	88	59	76

	SUMMP !:				
PARAMETER	YERRLY	JAH-MAR	APR-JUH	JUL-SEP	CCT-DEC
	day nit da:	day nit dan	day nit dan	day nit dan	day nit dan
a occur EL&SB dcts		9	2	4	1
% occur 2+ EL dcts	{	2	j 4!	9	2
RVG station H	32:	316	325	336	325
RVG station -N/Kft	14	12	15	18	12
AVG sfc usnd Kts	13 12 12	14 14 14	:2 11 11	12 12 12	13 13 13

化可以的 一种 医多种 化二甲基甲基甲基甲基 化二甲基甲基甲基

Specified location: 38 25

38 25 N 27 10 E

(*) INDICATES INSUFFICIENT DATA

Radiosonde source: 17220 38 25 N 27 19 E Radiosonde station height: 82 Feet

Radiosonde station height: 82 Feet Surface obs source: NS142 35 80 N 25 60 E

PEPCENT OCCUPPENCE OF ENHANCED SURFACE-10-SURFACE RAZHP/ESM COM RANGES*

PERCENT OCCURRENCE	Ur E	HULLIN	CED.	JURF	70 2 - 1	· 0-3	DK - N	LE RI	1505	. E 31.		is Lives	<u> </u>		
FREQUENCY	Y	EARL	Ÿ	Ji	BN-HE	38	A	PR-11	Jk.	31	JL-SI	P	CI	CT-DE	EC
I	day	nii	d2n	day	nit	din	day	ni*	ರ ಹಿಗ	day	การ	din	day	311	d t
168 HHz	0	Ø	<u></u>	- 0	Ø	8	9	8	9	-1	9	1	9	Ð	0
1 GHz	35	20	27	20	9	14	44	27	36	52	31	42	25	11	18
3 64:	42	23	34	24	12	18	58	31	41	62	_ 48	_51	32	17	25
6 GHz	63	50	57	47	35	41	64	48	56	79	66	73	63	58	56
10 GHz	83	77	80	77	71	74	81	72	76	89	85	87	85	81	83
20 GHz	90	88	89	88	86	87	88	84	86	93	92	92	93	91	92

SURFACE BASE'S DUCT SUMMAPY:

PARAMETER	37	EAQL.	Y	31	AH-H	R	A	PR-JI	UH	Ji	JL-SI	EP	01	CT-D	EC
	day	nit	d&n	day	nit	dan	day	nıt	den	day	nst	d&n	day	nit	din
Percent occurrence	3	3	3	ī	2	2	3	3	3	8	4	- 6	1	2	2
AVG thickness fft	İ		.29	ļ.		.31	l		.20	ł		,29	•		. 37
AVG trap freg GHz			1.2	Ì		.80	1		.91	j		1.7	1		1.3
776 lyr grd -N/Kft			144	i		196	1		229	Í		167	1		133

ELEVATED DUCT SUMMARY:

PARSHETER	Y	EARL	5	JI	AN-HI	ลล	f)£	'R-JI	HL	31	JL-51	EP	00	CT-D!	EC
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	den	dav	nit	120
Percent octurrence	<u> </u>	3	2	8	2	1	3		3	2	5	4	1	3	2
AVG top nt K· t	l		4.7	i		3.8	1		3.0	ĺ		7.1	1		4.9
AVG thicknes Kit	L		.32			.31			.34			.31	l		.63
AVG trap freq GHz	ļ — — —		1.2			- 93			1.9			1.3	Γ		.63
Avu lyr grd -N/Kft			62			61			59	l		51			79
AVG lyr base Kft	1		4.5	i		3.6	ŀ		2.8			6.5	ĺ		4.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PSPCENT OCCURRENCE	76	BRL	8	3	H-HA	ar -	R.	R-JI	JH	31	JL-SI	P	G	T-DE	C
	dau	nit	ᣠn	dau	671	dt.	day	nic	den	diy	กาะ	den	day	nit	480
0 to 10 Feet	5	5	- 5	6	- 6	6	7	7	7	5	5	5	3	3	- 3
10 to 20 Feet	5	7	€	7	9	8	5	8	7	3	4	3	4	7	5
20 to 30 Feet		_ 11	و	11	15	13	7	13	16	_ 4	- 6	5	8	10	à
38 to 49 Feet	9	-,4	12	14	18	16	9	13	11	5	10	?	10	14	:2
40 to 50 Feet	11	14	12	16	18	17	ક	11	19	6	11	8	13	17	15
SA tO EB Feet	9	11	16	12	:3	12	6	7	7	6	10	8	13	15	14
69 to 70 Feet	7	8	8	7	7	7	5	- 6	5	6	9	8	11	11	11
70 to 80 Feet	5	6	5	4	4	4	3	4	4	6	8	7	7	7	7
80 to 90 Feet	4	3	3	3	1	2	3	_ 2	3	5	. 5	5	5	4	4
90 to 100 Feet] 3	2	2	2	1	1	2	2	2	4	3	4	3		3
above 100 Feet	34	13	27	19	8	14	43	26	35	51	36	40	24	18	17
Hean height Feet	91	68	89	67	49	58	101	75	88	117	87	102	88	59	78

CENERAL RETERROLOGY SUNKERY

PARAMETER	Υl	ERRL	ï	Jf	iti-H	RF.	HF	マーブ	US:	Jį	JL-SI	Ē₽	00	T-D	EC
	day	nit	d&n	day	751	d\$n	day	***	den	day	nit	den	dau	ait	din
% occur EL&SB dcts			£			- 6	i – –	•	0			0			0
% orcur 2+ EL dcts	İ		9	i		0	•		0	1		8	ĺ		0
AVG station N			327	l		318	1		324			338			327
AVG station -N/Kft			13	ļ		12	ĺ		13	1		15			13
AUG see wind Kts	13	:2	12	14	14	14	12	: 1	11	12	12	12	:3	13	13

HISTORICAL PROPAGATION CONDITIONS SUKMAPY

IREPS REV 2.1

(*) INDICATES INSUFFICIENT DATA

Specified location: 31 19 N 27 13 E Radiosonde source: 62306 31 19 N 27 13 E Radiosonde station height: 92 Feet Surface obs source: MS142 35 00 N 25 00 E

PERCENT OCCUPRENCE	OF ENMANCED	SURFACE-10-5	UPPHLE KHUMP	ESUACOU KHUI	1 <u>E2:</u>
FREQUENCY	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit dan	day nit dan	day nit dan	day nit di i
100 MHz	4 2 3	1 1 1	5 4 4	9 4 6	1 1 1
1 GHz	43 26 34	33 13 18	54 36 45	66 40 53	28 13 21
3 GHz	58 32 41	29 17 23	61 42 51	74 49 61	37 20 28
6 GHz	69 55 62	51 48 45	73 57 65	86 71 78	65 52 59
18 GHz	86 88 83	79 73 76	85 76 81	93 87 98	86 82 94
29 GHz	92 89 91	89 87 88	91 87 89	95 93 94	94 91 92

SURFACE BASED DUC" SUNHARY:

PARAMETER	Y	EHRL	r	J	AH-H	F.R	Al	PR-JI	JH.	31	UL-81	P	0	CT-DI	EC
í	day	nit	din	day	nst	dan	day	nit	d&n	day	nit	d&n	day	nit	dån
Percent occurrence	21	14	17	9	10	10	27	19	23	37	17	27	11	8	13
RYG thickness Kit			.49	1		.32	l		.39	ļ		.53	Ì		.37
AVG trap freq GHz			.75	1		.89	I		.40			.28			1.5
AVG lyr grd -H/Kft			120	L		189	L		92			94			115

FFEAUTER ROCT SOURS	<u></u>														
PARAMETER		EARL	-		AN-KI			PR-JI			JL-S			CT-D	
	Gay	การ	d&ı.	day	nit	din	day	nit	d&n	day	nit	den	day	nit	dtn
Percent occurrence	12	21	17	6	. 18	12	12	18	15	2€	37	32	5	10	8
AYG sop ht Kft			2.4	•		2.8	ļ		1.7	l		2.2	i .		2.9
AVG thickness Kft	L		.54	<u> </u>		.46	<u> </u>		.56	L		.62	<u> </u>		.53
AYG trap freq GHZ			.37			.30			.40	r —		.31			.47
AVG lyr grd -H/kft	1		68	j		68)		57]		56)		દા
AYG lyr tase Kft			2.0			2.5	L		1.2	L		1.7	i		2.5

EVAFORATION DUCT MISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT	occ	URRENCE	Y	RRL	,	31	คน-หย	₹R	R!	R-JI	JH	31	/L - 51	P	00	7-D	C
L			day	nit	dŁn	day	nit	dkn	day	nit	d&n	43%	rit	din	dav	การ	din
9 to	19	Feet	5	5		6	ε	6	7	7	7	5	5	5	3	3	3
26 10	20	Feet	5	7	6	7	9	8	5	8	?	3	4	3	4	7	5
20 to	38_	Fiet	7	17	9	11	15	13		13	10	4	6	5	8	18	9
30 to	40	Feet	9	14	12	14	18	16	9	13	11	5	10	7	10	14	12
40 10	58	Feet	11	14	12	:6	19	17	8	11	16	6	11	6	13	17	15
50 to	60	Feet	9	11	16	12	13	12	6	_ 7	7	_ 6	10	6	13	15	14
60 10	70	F#21	7	8	8	7	7	7	5	6	5	- 6	9	8	11	11	11
70 10	98	Feel	5	6	5	4	4	4	3	4	4	6	3	7	?	7	7
80 0	98	Feet	4	3	3	3	. 1	2	3	2	3	5	_ 5	. 5	5	4	4
90 10	189	Feet	3	2	2	3	1	1	2	2	2	4	3	4	3	2	3
<u>s</u> bove	100	Feet	34	19	27	19	8	14	43	26	35	51	30	40	24	16	17
Hean he	ıgh	t Feet	91	68	80	67	49	58	161_	75	88	117	87	192	80	5\$	0

PARAMETER	YEARL	Y	76	iu-ni	R	AF	R-J	UN	31	L-SI	Ρ	00	T-D:	:0
	day nit	dŁn	day	nit	dàn	day	nit	dan	day	nit	din	day	nit	din
% occur ELASB dcts		1			8			1			3			- 3
% occur 2+ EL dcts	i	e			8	ĺ		8			1	•		
AVG station H		342	j		325			343	ĺ		363	i		337
AVG station -H/Kft		18	l		14			19			24	ļ		15
AVG sfc uind Kts	13 12	12	14	14	14	12	:1	11	12	12	_12	13	13	13

Specified location: 32 86 H 24 80 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 62062 32 06 N 24 90 E

Radiosonde station height: 46 Feet Surface obs source: NS142 35 00 H 25 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE PADAR ESM COM RANGES:

FREQUENCY	Y	EARL'	Y	Jf	111-HI	ar 🗀	Ŕ	R-J	JN 🗆	11	JL-SE	P	00	CT-DE	£ι
	day	nit	d£n	day	nit	d&n	day	nıt	d&n	day	211	den	day	nit	din
100 HHz	3	4	3	8	8	0	7	7	7	4	€	- 5	1	2	2
1 GHz	41	29	35	20	16	15	57	45	51	59	46	53	28	17	23
3 GHz	49	37	43	25	13	19	65	53	59	_69	<u>₹</u> 7	6?	37	24	_30
6 GHz	58	58	63	49	36	42	76	66	71	83	76	80	65	55	60
10 GHz	86	81	84	77	72	75	87	82	35	91	90	91	86	83	84
20 GHz	92	90	91	88	86	87	92	93	91	94	94	94	93	92	93

SURFACE BAGED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	31	H-HA	คล	A)	PR-11	UN	J	UL-SI	EP	0	にすーむ	EC
	day	nit	d&n	day	nit	džn.	day	nit	dtn	day	nit	otn	Jay.	ni:	din
Parcent occurrence	19	22	21	3	4	4	38	38	38	26	35	31	3	12	11
AVG thickness Kft	l		.39	l		. 24	i		.43	l		. 49	1		. 39
AVG trap freq GHz	l		.77	•		1.5	l		. 58	1		. 51	i		.64
AVG lur and -H/Kft	1		169			130	l		105	Ī		92	i		109

ELEVATED DUCT SUHHARY:

PARAMETER	Y	EARL'	Ŷ.	34	AK-M	AR	AI	-R-11	HL	31	JE-SE	P	90	T-DE	C
	day	nit	d&n	day	nıt	d&n	day	nit	d&n	day	n12	din	day	210	din
Percent occurrence	23	28	26	11	11	11	2€	32	29	41	53	47	15	16	16
AVG top ht Kft	}		2.9	1		4.2			1.5			2.2			3.5
AVG thickness Kft	L		.50	i		.26			.57			.75			. 39
AYG trap freq GHz			.46	i		1.0			.23			.14			.49
AVG lyr grd -N/Kft			61	i		57			60			64			62
AVG for base Kft			2.5	1		4.0	i		1.1	i		1.7			3.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	occ	URRENCE	YI	ARL'	$\overline{}$	J	AH-M	AR	Al	PR-J	UH	31	JL-SI	EΡ	o.	CT-D	EC
			day	nit	din	day	n15	din	day	nit	dtn	day	rit t	dŧn	day	712	dan
2 to	19	Feet	5	5	5	6	-€	6	7	7	7	5	5	5	3	. 3	3
18 to	28	Fest	5	7	6	7	9	S	5	8	7	3	4	3	4	7	5
28 to	30	Feet	_ 7	11	9	11	15	13	7	13	.0	_4	. 6	5	8	10	9_
30 to	40	Feet	9	14	:2	14	18	16	و ١	13	11	5	16	7	10	14	72
40 to	50	Fees	11	14	12	1€	18	17	3	11	10	6	1;	8	13	17	15
50 to	69	Fuet	9	1 <u>1</u>	10	12	13	12	6	7	7	6	10	8	13	15	14
€0 to	70	Feet	7	8	ē	7	7		5	6	5	6	٠	8	11	11	11
73 to	98	Feet	js	6	5	4	4	3	3	4	4	6	8	7	?	?	
01 93	56	Feet	4	3	3	3	, i	2	3	ź	3	. 5	5	- 3	5	4	4
49 23	100	Fee.	3	2	2	7	1	1	2	2	2	4	3	- 3	3	2	3
above	100	Feet	24	19	27	19	8	14	43	26	35	51	30	46	24	18	17
tican ne	1 ch	t Fort	91	60	80	67	49	58	181	75	83	117	87	102	80	59	-76

GEHERAL METEORO; OGY SUMNARY:

PARAHETER	Y	ERRL'	Y	31	1:1-10	ńR	AF	<u>₹-</u> J,	JH:	31	JL-SE	P	0	CT-DI	Ç
	dav	n1*	dên.	day	nı:	din.	Cay	n11	dto	Cay	nit	din	day	nít	dŧn
% occur Elthb drts			4			á	i			1		8	Γ		1
% occur 2+ EL dets			2			9	i		1	Į.		4	ł		1
AVG station N			341	i		322	ŀ		345	ĺ		363	1		334
AVG station -H/Kft	ł		18	ł		13	•		?≎	1		24	į		14
AVG sfc wind Kts	13	12	12	2.4	14	14	12	11	11	12	12	i2	13	13	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMAPY

Specified location: 38 12 N 15 36 E (*) INDICATES INSUFFICIENT DRTA

Radiosonde source : 16420 38 12 N 15 36 E

Radiosonde station neight: 177 Feet Surface obs source: M\$143 35 00 N 15 00 E

DEPCEUT ACCHIODENCE AS ENNAVOED CHOEGOC_TA_CHDEACE DARAD/ECM/CAM DANCES

LCACENI OCZOWNENCE	Or E	11-Child	cen_	JUKE	nce-	10-3	UKFT	- E P	חחחה	E 311		2.1.111	353.		
FREQUENCY	7	EARL	Ϋ́	J	AN-H	ñR	A	R-J	UN	7	JL-SI	EP.	Ö	C 1 - D1	EC
	day	_nit	_d&n	day	nit	d&n	day	nit	d&n	day	nit	dtn	day	nit	dtn
100 MHz	1	1	1	*	+	*	1	-1	1	Ž	2	2	*	*	+
1 GHz	42	28	31	*	*	*	37	16	26	47	24	36	+	ž	*
3 GHz	48	25	37	[_ * _	*	*	41	20	39	55	31	43		*	*
6 GHz	65	45	55	+	#	*	57	34	46	73	55	64	*	*	*
10 GHz	81	73	76	*	*	*	76	62	69	86	79	92	*	*	*
l 20 GHz	88	83	86		*	*	85	78	82	91	88	99	*	+	•

- 3	POK, HEE RHZEN NOC!	SUNDHRIE													
Į	PARAMETER	YEARLY	r —	J	าห-หล	iR	A!	PR-J	UH .	J	UL-SE	P	00	T-D	EC
I		day nit	d&n	day	nit	dln	day	nit	din	day	nit	d &n	day	nit	Q2 IV
I	Percent occurrence	8 9	- 8	*	-	*	ε	4	5	10	13	12	*	*	*
i	AVG thickness Kft	l	.36	1		*	1		.37			.35	i		*
1	AYG trap freq GHz		.63			*	ĺ		.66	ĺ		.59	ĺ		+
l	AVG lun gnd -N/Kft		152	i		4	l		133	L		172	Ĺ		+_

ELEVATED DUCT SUMMAI PARAHETER		ARL'	Y	J	ลน-ห	AR	fil	R-J	ÜH	J	UL-S	E۶	0	CT-P	EC
	day	nst	den	dey	nit	den	day	าเร	din	day	nit	dån	lday	n12	dan
Percent occurrence	8	4	6	+	#	-	4	4	4	11	4	8	*	*	*
AYG top ht Kft	ľ		3,4			#	ĺ		3.3			3.6	l		*
AVG thickness Kft			.61	l		*	l		. 46			.82			*
AYG trap freq GHz			.51	Γ		4			.8€			.15	i -		+
AVG lyr grd -N/Kft			61	1		*	ł		51	ł		71			•
AVG lyr base Xit			3.0	Í					2.9	<u> </u>		3.1	L.		. *

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PERCENT OCCU	RREHCE	Y	AKL	7	3	- N	ΠR	SI	R-J	UN	J	UL-51	P	0:	CT-DE	C
	1	day	nit	dan	day	nit	dån	day	ny*	<u>d&n</u>	day	nit	ರಕಿಗ	day	nit	dtn
e to 10	Fees	6	6	6	•	- 6	6	- 9	18	10	- 5	6	8	4	4	- 4
10 to 20	Feet	5	9	7	6	9	7	7	13	10	1	7	5	4	7	6
29 to 39	Feet	8	14	11	11	16	13	18	17	13	5	11	3	7	13	16
30 to 48	Feet	10	16	13	13	19	16	11	16	13	- 5	13	19	5: T	:3	13
40 to 53	Feet	11	15	13	14	18	16	10	12	11	ક	13	11	12	17	14
50 to 60	Feet	19	11	11	11	12	11	7		3	8	12	10	12	15	14
68 to 78	Feet	?	7	7	7	6	7	5	4	5	ε	8	7	18	10	16
78 to 80	Feet {	5	4	5	5	3	4	3	3	3	5	6	6	8	5	ő
89 to 98	Feet		2	3	3	2	2	2		2	_ 4	9	3	4	_ 3	4
98 to 100	Feet	.3		1	2	1	1	2	1	1	3	2	3	3	- 2	3
above 100	Feet	32	12	22	23	8	15	34	14	24	44	18	31	26	18	:8
Kean height	Feet	57	56	71	73	49	69	86	53	78	186	67	_ કત	32	56	€ 3

PARRMETER	YEA	RLY	36	1H-HF	42	R	マーブし	.N	7	UL-S	EP	00	T-DE	EC
	day n	ıı dan	day	nit	ರ೭ಌ	day	nı.	din	dav	015	din	Jav	310	gan.
a occur ELSB dets		0			9			Ø			1			- 6
% octur 2+ EL dets		8	l		9	ł		Ð			8			8
AVG station of	1	342			*	i		335			349			•
AVG station -HARFE		17	ļ		•	i i		16			18			,
AVE afe wind Kts	12	12 12	:5	14	14	11	1 i	1 %	3.5	9.3	9.4	_13	12	13

E

35 49 N 14 25 E

(*) INDICATES INSUFFICIENT DATA

Radiosonde source : 16596 35 49 N 14 25 E Radiosonde station height: 443 Feet

Surface obs source: MS143 35 00 N 15 00 E

REKIEM! OFFORKENTE	OF ENHA	CED .	SUKE	HLE-	10-2	JKFRI	'E KI	אאער	<u>'ESP</u>	י טיי	KHM	<u> </u>		
FREQUENCY	YERRI	.Y —	J	AN-HI	AR	Al	PR-JI	JN	7	UL-SI	P	0	CT-DE	EC
i	day nit	dan :	day	រាវ	d&n	day	กาเ	dân	Cay	กเร	din	day	nit	d£n
100 HHz	3 .	1 3	1	1	1	4	4	4	5	8	7	2	2	2
1 GH≥	39 2	32	26	12	19	44	29	37	55	41	48	33	15	24
3 GHz	47 3	2 48	33	16	24	51	38	44	63	51	57	42	22	_32
6 GHz	67 5	2 59	55	37	46	65	51	58	79	69	74	69	5 9	60
10 GHz	84 7	7 81	79	71	75	81	72	77	89	85	87	88	79	83
20 GHz	91 8	3 98	89	87	88	89	84	87	93	92	92	93	91	92

PARAMETER	YI	EARL	7	J	AN-M	RR	Al	PR-JU	JN	3(JL-SI	P	00	T-DI	EC
	day	nit	dtn	day	nit	dån	day	nıt	dŁn	day	การ	din	day	nit	dan
Percent occurrence	22	25	24	12	11	12	23	35	32	29	41	35	20	14	17
AVG thickness Kft			.30	l		.17			.28	l		.51			. 23
AVG trap freq GHz	i i		1.2	1		1.9	•		1.0			. 44			1.4
AVG lyr grd -N/Kft	1		97	1		161			89	l		93			107

PARAMETER	Y	ARL	7	J(AH-H	ar .	AI	R-JU	Ж	Jt	JL-SE	EΡ	00	T-DE	C
	day	ព១ខ	dån	day	nit	d&n	day	nit	dan	day	nit	den	day	nit	dtn
Percent occurrence	20	23	21	12	:5	14	17	22	28	29	31	30	20	23	22
AYG top ht Kft	!		2.9			1.9			1.4	l		2.2			2.3
AVG thickness Kft	i		.43	L		.30			.42			. 57	L		.42
AVG trap freq GHz			.49		-	.83			.38			.25			.51
4VG lyr grd -N/Kft	l		58			56			61	l		57	Į.		57
AVG lyr base Kft	l		1.6	l		1.7			1.1	ì		1.7	l		2.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT C	CCURRENCE	1 4	FARL	•	_ J	RN-M	ar	- AI	ヤーノリ	HU	Jı	ルーSI	EP	- 00	T-DE	EC
		day	nit	dŁn	day	กาเ	d&n	day	nit	dŁn	day	nit	d&r.	day	nit	d&n
3 to i	0 Feet	6	- 6	6	E	6	6	9	10	10	6	- 6	6	4	4	4
10 to 2	20 Feet	5	9	7	6	9	7	7	13	10	4	7	5	4	7	6
20 0 3	38 Feet	8	14	11	11	16	13	18	17	13	5	11	8	7	13	10
30 to 4	0 Feet	10	16	13	13	19	16	11	16	13	6	13	10	10	15	13
40 to 5	50 Feet	11	15	13	14	18	16	19	12	11	8	13	11	12	17	14
50 to 6	0 Feet	19	11	11	11	12	11	7	8	8	8	12	10	12	15	14
60 10	'O Feet	7	7	7	7	6	7	5	4	5	6	8	7	10	10	10
79 tc 8	30 Fret	5	4	5	5	3	4	3	3	3	5	6	6	8	5	6
80 10 9	8 Feet	<u>] 3</u>	2	3	3	2	2	2	2	2	4	3	3	4	3	4
30 to 1	198 Feet	3		2	2	1	1	2	1	1	3	2	3	3	<u>2</u>	_ 3
ahove 1	INO Feet	32	12	25	23	ខ	15	34	14	24	44	18	31	26	10	18
Hean hei	ght Feet	87	56	71	73	48	60	86	53	78	186	67	86	82	56	65

PARAMETER	YEARLY	JAN-KAR	RPR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit dan	day nit dan	day nit dên	day nit din
% occur ELESE dets	3	1	3	5	3
% occur 2+ EL dcts	1	9	1	2	1
AVG station N	337	325	335	353	333
AVG station -N/Kft	18	15	18	21	16
AVG sf: uind ris	12 12 12	15 14 14	11 11 11	9.5 9.3 9.4	13 12 13

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

Specified location:

36 49 N 10 13 E

(*) INDICATES INSUFFICIENT DATA

Radiosonde source : 60715 36 49 N 10 13 E

Radiosonde station height: 16 Feet

Surface obs source: MS143 35 00 N 15 00 E

PERCENT OCCUR	RENGE OF E	BULLI	LED :	SUKF	HCE-	10-30	UKFR	UE RI	DOR	- E 311	CON	KHA	ues.		
FREQUENC	YY	ERRL	ľ	J	AH-HI	R	Ri	PR-J	אנ	J	UL-S	EP	0:	CT-DI	EC
	day	nit	dån	day	nit	d&n	day	nit	dŧn	day	กเน	d&n	day	ņit	dtn
109 HHz	2	2	2	1	1	1	1	2	2	5	6	5	1	1	
1 GHz	36	20	28	26	12	19	38	22	38	53	34	44	28	12	20
3 GHz	43	26	34	31	16	24	43	27	_35	61	42	52	_37	_ 18	27
6 GHz	63	47	55	53	36	45	59	41	50	77	63	70	65	47	56
10 GHz	82	74	78	79	71	75	77	66	72	88	82	85	86	77	82
20 GH=	1 90	87	88	88	86	87	86	81	83	92	90	91	92	92	91

SOREHITE THREE DOCL	SUNNHKT:													
PARAMETER	YEARLY	?	36	וא-או	BR .	A	PR-J	UN	7	บน-รเ	EP _	00	CT-DI	EC
i	day nit	din	day	nit	ರಹಿಗ	day	nit	d&n	day	nit	din	day	nıt	dan
Percent occurrence	12 14	13	7	8	8	11	17	14	22	27	25	6	- 5	- 6
AVG thickness Kft	1	.38	İ		.33			. 34			.49			. 23
AYG trap freq GHz	[.81	ĺ		.82	i		.94	l		.34			1.1
AVG lur grd -N/Kft	!	97	L		82			79	L		72	Ĺ	_	155

ELEVATED BUCT SUMMARY.

PARAMETER	YI	EARL'	r	Ji	iN-M	ìR	AI	PR-JI	JH	11	JL-SI	EP	01	CT-DI	EC T
	Jay	กาะ	<u>d£n</u>	day	nit	d&n	dav	nit	din	day	nit	đin	day	nit	ctn
Percent occurrence	8	8	8	2	3	3	8	9	8	17	16	17	4	- 6	5
AVG top ht Kft			3.1	ļ		4.0	1		2.2	l		2.4	;		3.♀
AVG thickness Kft			.42	<u> </u>		.31			.56	L		.56	L		. 31
AVG trap freq GHz			.69			1.0			.39			.37			1.8
AVG lyr grd -N/Kft			57	ļ .		61	i		58	i i		54	ł		5.6
AVG lyr base Kft			2.8	L		3.7			1.8		_	1.9			3.6

EVAPORATION BUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OF	CCURRENCE	Yi	EARL'	Ÿ	J	H-HR	RR	Fi!	55-11	JN	3	JL-S!	EP	Ci	T-DE	3
		day	nit	din	day	nit	din	day	nit	den	day	nit	ರಕಿಗ	day	015	din
9 to 10	Feet	5	- 6	6	6	6	- 6	9	19	18	g.	6	6	4	4	4
10 to 20	Feet	5	9	7	6	9	7	7	13	10	4	7	5	4	7	6
20 to 30	Feet	8	14	11	11	16	13	. 6	17	13	5	11	\$	7	13	18
30 to 40	Feet	10	16	13	13	15	16	[11	15	13	6	13	10	10	15	13
40 to 50	3 Feet	11	15	13	14	18	. ô	10	12	11	8	٠3	1:	12	17	10
50 to 60	Feet	10	11	11	11	12	11	7	8	8	8	12	10	12	15	14
60 to 70	Feet	. 7	7	7	7	6	7	5	4	5	6	5	7	10	10	10
70 to 31	Feet	5	4	5	5	3	4	3	3	3	5	6	6	8	5	6
88 to 98	Feet	3	2	3	3	2	2	_2	2	2	4	3	3	4	3	4
98 to 10	9 Feet	3	2	2	2	1	1	2	1	1	3	2	3	3	2	3
above 10	38 Feet	32	12	22	23	8	15	34	14	24	44	19	31	26	19	:8
Hean here	tht Feet	87	56	71	73	48	60	86	53	70	185	67	86	82	56	59

PARAMETER		ARL'	•		1:4-H			R-J			JL-S			T-BE	
	JAV	nit	dŁn	day	การ	din	day	nit	ರಹಿಗ	day	nit	d&1.	day	nit	sin
% occur EL&SB dcts			1			9			1			2			8
% occur 2+ EL dets	ĺ		9			8			Q	ĺ		1			0
AVG station N			338			326	1		337			355			334
AVG station -N/Kft			15	ŀ		13	I		16			19			14
AVG sfc wind Kts	12	12	12	15	14	14	11	11	11	9.5	9.3	9.4	13	:2	:3

Specified location:

32 54 H 13 18 E Radiosonde source : 62911

Radiosonde station height: 13 Feet Surface obs source: MS143 35 08 H 15 00 E

FREQUENCY	Y	EARL'	Υ	J	าห-หล	RP.	នា	R-JU	Jii	J	UL-SI	ΕP	0	CT-DI	EC
	iday	nit	din	day	reit	ゴ&ロ	day	nit	dŧn	day	nit	dan	day	n*t	dŁn
100 HHz	14	9	12	4	4	4	16	11	14	30	28	25	4	3	3
1 GHz	58	37	47	36	21	29	69	46	58	89	61	75	38	19	29
3 GHz	65	43	54	44	27	35	76	_53	65	92	65	79	49	26	_ 37
6 GHz	78	58	69	63	46	54	83	63	73	95	77	85	73	53	63
10 GHz	90	81	85	83	75	79	91	78	84	98	89	93	89	88	8 5
20 GHz	94	96	92	91	88	98	94	87	9:	99	94	96	94	91	93

PARAMETEP	Y	ERRL	7	J	คห-หเ	R.	A	R-J	ЛÑ	JI	JL-SI	P	00	T-Di	EC
	dav	nıt	dan	day	nit	din	day	nit	den	day	nit	d&n	day	nit	den
Percent occurrence	51	35	43	27	22	25	63	45	54	84	55	70	29	18	24
AVG thickness Kft			.46	i		.36	l		.48			. 67	1		.34
AVG trap freq GHz			.43	l		. 54	l		. 25			. 15	i		.77
AVG lyr grd -H-Kft	L_		131	L		104	Ĺ.,		95			93	L	_	113

PARAMETER	Υ:	EARL	۲.	J	AH-M	iR	R	PR-JI	URA	J	JLSE	F	Ç(T-DE	C
				day	nit	dån	day	nit	d&n	day	nit	den	day	nit	d&n
Percent occurrence	16	29	23	13	25	19	17	28	20	23	43	33	12	19	16
AVG top ht Kft			3.6			3.4	l .		2.2	i		3.2	ł		5.4
AVG thickness Kft			.42	i		.30	L		.43	_		.62			.32
AVG trap freq GHz			.47			.72			.48			.19			.60
AVG lyr grd -N'Kft			62	l		56			61	ł		76	•		61
AVG lyr base Kft			3.3	i		3.2	l		1.9			3.8	i		5.2

EVAPORATION DUCT HISTOGRAM IN PERCENT COMPRENCES

PERCENT OCCURRE	CE YEA	R_Y	JF	in-He	R	AF	R-JI	JN	J	JL-SE	.7	60	T-DE	C
	cau n	ii din	day	211	ಚಿತ್ರಿಗ	day	nit	din	day	nit	d&n	644	niz	dtn
0 to 10 Fee	6	6 6	6	6	6	9	10	10	-6	6	6	4	4	4
18 to 28 Fee	5	9 7	6	9	7	7	13	10	4	7	5	4	7	6
20 10 30 Fee	8	14 11	11	16	13	18	17	13	5	11	3	7	13	18
30 to 40 Fes	: 19	16 13	13	19	15	11	1€	13	6	13	16	18	15	13
48 to 58 Fee	11	15 13	1-	15	:6	10	12	11	8	13	11	12	17	14
53 40 60 Fee	1 10	11 _11	11	12	11	7	8	3	8	12	10	12	• 5	:4
60 to 70 Fez	7	7 7	7	_ ε	7	5	4	5	6	٤-		10	10	to
70 to 20 Fee	5	4 5	5	3	4	3	3	3	5	6	c	ន	5	Ĺ
58 10 99 Fe-	3	2 3	3	2	2	2	2	_ 2	4	3	3	4	3	4
90 to 100 Fee	7	2 2	E	1	1	- 2		1	. 3	3	3	3		- 3
above 100 Fec	32	12 22	23	8	15	34	14	24	44	1\$	31	26	10	18
Hean he cht Fe	1 37	56 71	73	48	68	\$5	53	~ວ	106	52	23	82	56	69

					AR.	***	R-31	,,,		jL-SE	-	υv	۲۰ DE	·
dav	nit	den	dav	nit	din	dav	nit	den	day	ni	ctn	day	ni:	der
<u> </u>		6	\Box		3			7	_		12			3
ĺ		3	1		1			5			6			3
ì		342	ļ		324	1		344			30€			335
1		26	}		\$5			22			28	ĺ		15
12	12	12	15	14	14	11	11	11	9.5	9.3	9.4	13	12	13
	12		6 3 342	6 3 342	6 3 342	6 3 3 1 342 324	6 3 3 1 342 324	6 3 3 1 342 324	6 3 7 3 1 5 342 324 344 2L 15 22	6 3 7 3 1 5 342 324 344 2L 15 22	6 3 7 3 1 5 342 324 344 2L 15 22	6 3 7 12 3 1 5 6 342 324 344 336	6 3 7 12 3 1 5 6 342 324 344 306 2L (5 22 28	3 1 5 6 342 324 344 306 2L 15 22 28

HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location:

IREPS REV 2.1

36 43 N 3 15 E

(*) INDICATES INSUFFICIENT DATA

Radiosonde source : 60390 36 43 N 3 15 E Radiosonde station height: 75 Feet Surface obs source: MS144 35 00 N 5 00 E

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESH/COM RANGES:

PERCENT OCCORRENCE	<u> </u>	******	<u> </u>	SOUL	HUE"	. 0 - 3.	UNFIN	- K	TUPE	E 311	CUIT	Knin	363.		
FREQUENCY	Y	EARL'	Υ	Ji	RN-HI	PR	- AI	マネーゴリ	HL	31	JL-SE	ΕP	00	T-D	ΕĒ
l	day	nit	d&n	day	nit	der.	day	nit	d&n	day	nit	đện	day	การ	din
100 MHz	2	4	3	1	1	1	2	3	3	3	10	7	1	1	1
1 GHz	33	23	28	28	13	21	35	25	38	41	41	41	29	14	21
3 GHz	39	29	34	33	17	25	41	30	36	47	46	47	36	19	28
6 GHz	58	46	52	53	34	44	55	43	49	64	62	63	61	44	53
10 GHz	89	72	76	78	66	72	75	67	71	81	81	81	85	76	ខទ
28 GHz	88	85	87	89	82	85	95	82	83	89	89	89	92	88	9

CHICEGOE BACED DHOT CHIMMADY.

SOREHEE BUSED DOCL	<u> 5000</u>	HKIL													
PARAMETER	_Y	ERRL'	4	3	AN-MI	AR	RI	PR-J	UN	3	JL-SI	EP	ŏ	T-DE	2
Ĺ	day	nit	dŁn	day	nit	d&n	day	nit	d&n	day	nit	d£n	day	nit	dtn
Percent occurrence	8	17	13	7	8	8	10	21	16	9	32	21	5	- 8	7
AVG thickness Kft	ſ		.43			.36	l		.36			.70	ļ		. 30
AVG trap freq GHz			.65			.64	ĺ		.57	į		. 18	i .		1.2
AVG lyr grd -N/Kft			106	L		117			110			84	L		111

FLEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Υ	Ji	าห-หเ	R	RF	R-JI	UN	Ji	JL-S!	EP	00	T-DI	C
	day	nit	d&n	day	nit	dan	day	การ	d&n	day	nit	den	dav	nit	dt o
Percent occurrence	17	17	17	- 6	8	7	16	18	17	35	29	32	10	13	12
AVG top ht Kft	ł		3.2	Ì		3.1	ł		3.5			2.5	1		3.7
AVG thickness Kft	Ĺ		. 45	j		.29	<u> </u>		. 45			.62	.	_	.45
AVG trap freq GHz			.51			-78			.54			.21			.45
AVG lyr grd -N/Kft	[57	•		56	l		56			58	ſ		56
AVG lyr base Kft	i		2.8	i		2.8			3.1	l		2.0	ł		3.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENC		EARL			AN-M			R-JI	JN	34	JL-SI	ĒP.	C	T-DE	C
	day	nit	d&n	day	n) t	dtri	day	nit	dkn	day	กรา	d&n	(day	nit	dan
8 to 10 Feet	6	7	7	6	7	€	9	16	9	6	5	- 6	4	4	4
10 to 28 Feet	1 6	11	9	7	12	9	8	13	11	6	11	8	5	8	?
20 to 39 Fee'	(16	15	12	11	17	14	11	18	24	9	12	18	7	13	10
30 to 40 Feet	11	16	14	13	19	16	12	18	15	9	13	11	11	15	14
*0 to 50 Fee:	11	15	13	13	16	14	10	12	11	3	14	11	13	17	:5
50 to 68 Feet	9	1.1	10	10	18	10	_7_	7	7	8	11	10	13	13	:2
50 to 76 Fees	6	8	- 6	7	5	6	4	4	4	6	7	7	S	8	8
78 to 89 Feet	5	4	4	4	2	3	3	2	3	5	5	5	5	5	- 6
80 to 96 reet	[3	3	3	2	. 1	2	2	1	2	4.	3	3	4	2	3
98 to 100 Feet	1 2	1	Ž	5	1	1	2	1	1	3	2	2	3	1	Z
above 100 Feet	30	12	21	23	9	17	31	14	22	36	16	26	27	11	13
Hean height Feet	53	S4	68	75	48	62	81	52	-6€	92	62	77	82	55	69

PARAMETER	YEARLY	JAN-HAR	APR-JUN	JUL-SFF	CCT-DEC
	day nit dan	day nit dan	day nit din	day nit den	day nit den
a occur ELEST week	1	1	2	7	1
2 occur 2+ EL dcts	1	ز	1	3	1
AVG station H	336	365	336	351	339
3VG stactor -N/Kir	15	12	16	19	13
ESX Entu of a DVA	12 11 11	14 13 13	11 19 11	18 8.9 9.2	13 12 12

39 15 N 9 03 E Specified location: 39 15 N 9 03 E Radiosonde source: 16560

(*) INDICATES INSUFFICIENT DATA

13 Feet Radiosonde station height: Surface ons source: MS144 35 88 N 5 88 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE PADAR/FSM COM PANGES:

PERCENT OCC	URRENLE OF E	MAAN	CED	SURFI	HCE-	10-30	JK F N	LE "!	nunr	E 211	600	FIRM	35.74		
FREQUE	NCY Y	EARL	Ÿ	31	<u>คห-หเ</u>	RR T	A	PR-JI	หน	J	JL-51	EP	0	CT-DE	EC
	day	nit	d&n	day	nit	dan	day	nit	dŁn	day	nit	dan	day	nıt	dtn
100 MH	z 3	3	3	2	1	1	3	3	3	8	8	8	2	1	2
1 GH:	± 38	22	39	39	12	21	38	23	36	51	37	44	31	16	24
3 GH:	z 44	26	35	36	15	26	44	27	35	58	43	51	39	21	_38
6 GH	z 62	44	53	55	32	44	57	39	48	72	61	66	63	45	
18 GH	z 81	71	75	73	65	72	76	65	70	85	80	82	85	76	81
26 GH:	z 89	85	87	89	82	85	86	80	83	91	88	99	92	88	99

CUSEOUS BACER BUST SUMMODY.

PARAMETER	Y	EARL'	Ÿ	J	RH-M	RR	A	R-J	JN	7	UL-SI	EP	O	CT-DI	EC
	day	nit	d&n	day	nit	d&n	day	nit	dan	day	nıt	dtn	day	nit	dtn
Percent occurrence	16	15	15	12	6	9	14	14	14	29	29	29	10	9	10
AYG thickness Kft			.44			.32			.46	ĺ		.61	l		.39
AVG trap freq GHz			.49			.77			.36			. 24	1		.60
AVG lur and -N/Yft			88			118	ŀ		81	1		75			84

ELEVATED DUCT SUMMA	<u> </u>														
PARAMETER	Y	EARL'	Y	J	Ali-M	ละ	HI	R-JI	NH.	Ji	JL-\$	EP	00	CT-DI	EC
	Jay	nit	dtn	day	nit	d£n	day	nit	d&n	day	nit	d&n	day	nit	dan
Percent occurrence	13	17	15	9	11	10	10	15	13	14	19	17	17	21	19
AYG top ht Kft			3.6			3.5	!		4.1	l		2.9	i		4.8
AYG thickness Kft			.39	.	_	.31	L		.35	<u> </u>		.52			.36
HYG trap freq GHz			.58			.90			.59			.35			.49
AVG lyr grd -F/Kft			59	l		56	1		59	l		61			59
AVG 10r base Kft	<u> </u>		3.4	Ĺ		3.3	Ĺ		3.9	Ĺ		2.6	Ĺ		3.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCC	JRRENCE	YE	EARL'	4	J 31	AN-M	AR	A!	PR-JI	UN	31	UL-\$1	EP	00	CT-DE	EC
			day	nit	den	day	nit	den	day	nıt	<u>dtn</u>	day	nit	důn	day	nit	dan
Sto	10	Feet	6	7	7	6	7	- 6	9	10	9	6	- 6	6	4	4	4
10 to	26	Feet	6	11	9	7	12	ė	8	13	11	6	11	8	5	8	7
28 to	30	Feet	10	15	12	11	17	14	11	18	14	9	12	10	7	13	16
30 to	40	Feet	11	16	14	13	19	16	12	18	15	9	13	11	11	16	14
40 to	50	Feet	11	15	13	13	16	14	18	12	11	9	14	11	13	17	15
50 to	58	Feet	9	1,1	10	10	10	10	7	7	_ 7	8	11	10	11	13	12
60 to	70	feet	6	6	6	7	5	6	4	4	4	6	7	7	8	8	- 6
70 to	88	Feet	5	4	4	1 4	2	3	3	2	3	5	5	5	6	5	é
01 88	90	Feet	3	2	3	_2	1_	2	2	1	_ 2	4	3	3	_ 4	2	3
90 to	100	Feet	2	1	2	2	1	1	2	î	1	3	2	2	3	1	7
above	100	Feet	30	12	21	25	9	17	31	14	22.	36	16	26	27	11	19
Hean he	1 gh	Feet	83	54	68	75	48	62	81	52	€6	92	52	77	82	55	69

PARAMETER	EARL	Ÿ	JF	พ-หล	Ŗ Ţ	APR	-JUH	7	Ji	JL-\$1	P	00	T-DE	C
	day nit	dŁn	day	<u>n1* (</u>	d‡n	day n	it d	٤n	day	nit	dŧr.	day	1772	dŁn
% occur EL&SB dcts		2			1			1			3			1
% occur 2+ EL dcts	ļ	1	1		9			1			1			1
AVG station N		339	•	;	328		3	39			355			335
RYG station -N-Kft		1\$	1		15			18			22			16
AUG sec wind Fra	12 11	_11	14	13	131	11	10	11	10	8.9	9.2	13	12	12

HISTORICAL PROPAGRTION CONDITIONS SUMMAPY

Specified location: 39 36 H 2 42 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source: 8302 39 36 N 2 42 E Radiosonde station height: 148 Feet

Surface obs source: MS144 35 80 N 5 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SUPFACE RADAP/ESH COM RANGES:

PERCENT OCCURRENCE	<u> </u>	HULLIN	<u> </u>	SUKF	nce-	.0-3	SPPRE	CE KI	חאעה	<u> </u>	COM	Kniit	<u> </u>		
FREQUENCY	Y	EARL'	Y	J	คห-หล	ÄR	RI	PR-JI	JH	J	JL-S	EP	-00	CT-DI	EC
	day	nit	d&n	day	การ	d&n	day	nit	<u>d</u> &n	day	nit	d&n	day	nit	_d&n_
100 MHz	1	1	1	Θ	0	8	1	1	1	1	1	1	0	0	9
1 GHz	31	14	23	25	10	17	32	15	24	39	20	29	28	12	20
3 GH2	37	18	27	38	12	21	37	18	27	45	25	35	35	16	26
6 GHz	56	38	47	51	30	49	51	31	41	63	48	56	60	42	51
10 GHz	78	68	73	77	64	78	73	69	67	89	73	77	84	74	79
20 GHz	88	83	85	88	81	84	84	78	_81	88	85	87	91	87	89

SUPFACE BASED DUCT SUMMARY:

IREPS REV 2.1

PARAMETER	YE	ARLY	7	J	AH-M	R.	Al	R-J	JN	31	JL-SI	Ρ	0	T-DI	EC
	day	nit	dån	day	nıt	din	day	nit	dan	day	nit	din	day	mit	dtn
Percent occurrence	3	4	4	1	2	2	3	3	3	7	7	7	2	3	3
AVG thickness Kft			.30	1		. 25			.32			.31			.32
AVG trap freq GHz			.89			1.4	l		.54	ĺ		.54	i		1.0
AVG lyr grd -N/Yft	L		125	L		131	l		110	<u> </u>		88	j		170

ELEVATED DUCT SUMMARY:

PARAMETER	ď	EARL	Y	J	AII-MI	RR	AF	` <u>R−J</u> (<u> </u>	Jŧ	JL-SI	P	O	CT-DE	C
	day	nit	d&n	day	nit	d&n	day	nit	d&n	da	nit	dan	day	nit	d\$n
Percent occurrence	9	- 8	8	4	4	4	7	3	5	15	15	15	9	10	10
AYG top ht Kft			3.5	İ		3.1			3.1	ŀ		3.9			3.8
AVG thickness Kft			.35	l		. 29	L		.31	L .		.47			.35
AVG trap freq GHz			.70			.79			.91			.43			.66
AVG lyr grd -N/Kft			59	İ		56			61			56			65
AVG lyr base Kft	l		3.2	l	_	2.9	i		2.9	1		3.5			3.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCI	JRRENCE	Y	EARLY	′	j Ji	AK-HI	iR	R	PR-J1	JH :	31	ひとーら!	E.P	00	CT-DE	٤٤
			dav	nit	d&n	day	nit	dan	day	nit	dan	day	nit	dan	day	nit	dan
8 10	10	Feet	6	7	7	6	7	6	9	19	9	6		- 5	4	4	4
10 to	29	Feet	6	11	9	7	12	9	8	13	11	6	11	8	5	8	7
20 to	30	Feet	10	_15	12	11	17	14	11	18	_ 14	_ 9	12	18	7	13	19
30 to	40	Feet	11	16	14	13	19	16	12	18	15	9	13	11	11	16	14
40 to	58	Feet	11	15	13	13	16	14	10	12	11	9	14	11	13	17	15
50 10	60	Feet	9	11	10	10	10	10	7	7	. 7	8	11	10	11	13	12
60 to	70	Feet	6	- 6	6	7	5	6	4	4	4	6	7	7	8	8	8
70 to	80	Feet	5	4	4	4	2	3	3	2	3	5	5	5	6	5	6
88 to	98	Feet	3	2	3	_2	1	2	2	1	_ 2	_ 4	. 3	3	4	2	3
90 to	166	Feet	2	1	2	2	1	1	2	1	1	3	2	Ž	3	1	2
above	100	Feet	30	12	21	25	9	17	31	14	22	36	16	26	27	11	19
Hean he	i ghi	Feet	83	54	68	75	48	62	81	52	66	92	62	77	82	56	63

CHILDRICK TIETGOTOGOGT														
FARAHETER	YEARL	Υ	Ji	าห-หร	R	- AF	R-J	JN	Ji	UL-SE	9	00	T-DE	C
	day nit	d&r	day	nit	den	day	nit	din	day	nit	dtn	day	nit	din
% occur ELLSB dets		6	[Θ			9			6			Ð
X occur 2+ EL dcts		0	•		6	ł		0			1	!		в
AVG station N		330)		321	•		328			344	i		323
AVG station -N/Kft	i	13	1		12			13	i		14			13
AVG SEC WIND KIS	12 11	11	14	_13	13	11	10	_ 11	10	8.9	9.2	13	12	12

Specified location:

48 27 N 4 25 W

(*) INDICATES INSUFFICIENT DATA

Radiosonde source : 7110

7110 48 27 N 4 25 W

Radiosonde station height: 338 Feet Surface obs source: MS145 45 00 N 5 00 N

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE PADAP/FSM CON RANGES:

		OCCORPERCE							UKFRI								
1	FRE	QUENCY	Y	EARL'	Y	JI	AX-MI	1K	Į HF	P-J1	JH	J	UL-SE	בר	U	CT-DE	EC
L			day	nıt	d&n	day	nıt	d&n	day	nit	d&r.	day	nit	d&n	day	nit	dŁn
	100	HHZ	0	Ø	9	Ø	0	8	8	0	- 6	9	1	0	0	0	9
1	1	GHz	10	6	8	5	2	3	11	ε	9	17	10	14	7	4	5
L	3	GHz	12	7	_ 10	6	3	4	13	8	11	21	13	17	9	5	7
	6	GHz	25	17	21	17	10	14	24	16	20	36	26	31	25	17	21
ļ	10	GHz	55	48	51	48	42	45	59	43	47	62	54	58	59	52	55
	28	GHZ	73	69	71	68	66	67	69	66	- 68	76	72	74	78	74	76

SURFACE BASED DUCT SUMMARY:

PARAMETER	YE	HRL'	ř	J	H-HA	BR	AF	R-JI	ıN	Jŧ	JL-SE	P	C	CT-D	EC
	day	nıt	dsn	day	nit	din	day	nit	d&n	day	nıt	d&n	day	ni t	dt ∧
Parcent occurrence	1	2	2	1	0	1	0	3	2	3	5	4	1	1	
AYG thickness Kft	l		.26	1		. 25	ł		.28	l		.33	i		. 16
AYG trap freq GHz			1.8	ĺ		3.2	[. 68			1.1			2.1
AVG lyr grd -N/Kft			139	1		96	İ		117			107			235

ELEVATED DUCT SUMMARY:

The second of th

PARAMETER	YI	EARL'	r	Ji	911-M	R	Ai	R-JU	HL	Jt	JL-S!	P	01	CT-DI	EC
	day	nit	ď&n	day	nit	d&n	day	nit	d&re	day	nit	d&n	day	nit	d&n
Percent occurrence	10	10	10	5	5	5	10	9	10	15	16	16	9	9	9
AVG top ht Kft			3.6			3.3	İ		3.6			3.5			3.9
AVG thickness Kft			. 35	L		.31	l		.29			.45			.34
AYG trap freq GHz			.69			.72			.65			.41			.62
AVG lyr grd -N/Kft	ļ		57	ł		56	l		62	l		56			55
AVG lyr base Kft			3.3			3.1	ł		3.4	i		3.1			3.6

EVAPORATION DUCT_HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRE	ENCE	YE	ARL	1	Ji	AN-MI	ar .	RI	R-JI	JH	J	JL-SI	ΕP	00	T-DE	C
		day	n1:	C\n;	day	nit	d&n	day	nit	dan	day	nit	dån	day	กเร	dan
0 to 10 Fee	et	13	14	13	14	14	14	15	15	15	13	14	14	10	11	:0
10 to 20 Fee	Pt	14	17	16	17	19	18	16	26	18	11	16	13	13	15	14
28 to 38 Fee	19	18	22	20	28	23	22	19	24	22	_15	19	17	19	22	21
30 to 40 Fee	2 L	18	19	18	19	20	28	17	18	18	15	17	16	20	21	20
40 to 50 Fee	27	12	12	12	12	12	12	10	9	10	11	12	12	15	14	14
50 to 60 Fee	21	8	6	7	7	5	- 6	6	5	5	_ 8	7	8	9	8	9
60 to 70 Fee	Pt	3	3	3	2	2	2	3	2	2	5	4	4	4	3	3
70 to 80 Fee	et	2	1	2	1	1	1	2	1	1	3	2	2	2	1	5
80 to 99 Fee	21	_1	1	1	1	9	1_	_ 1	1	1	2	1	1	1	1	. 1
90 to 100 Fee	22	1	-1		1	9	6	1	1	1	1	1	1	1	1	1
above 100 Fee	≥૧ {	10	- 5	7	5	2	3	11	5	8	16	9	12	7	3	5
Mean height Fe	et	45	35	48	36	31	33	45	33	39	56	41	29	42	36	39

YEARLY	JAN-MAR	APR-JUN	JUL-SEP	CCT-DEC
day nit dan	day nit dan	day nit din	day nit din	day nit din
0	8	Ü	ઈ	0
: : :	8	9	2	9
327	319	326	337	326
13	13	13	15	13
15 14 15	18 17 17	14 13 13	12 12 12	17 16 15
	day nit dan 0 : 327	day nit dan day nit dan 0 0 1 0 327 319	day nit dan day nit dan day nit dan 0	day nit dan day nit dan day nit dan day nit dan 0 0 0 0 0 0 0 2 2 2 337 319 326 337 337 337 337 349 346 347

HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location:

43 22 N 8 25 W

(*) INDICATES INSUFFICIENT DATA

Radiosonde source : 8001

IREPS REV 2.1

43 22 H 8 25 %

Radiosonde station height: 228 Feet

Surface obs source: MS145 45 00 N 5 00 N

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE PADAP/ESM/COM RANGES:

TEREBITI OCCUPATION				••••							***				
FREQUENCY	Ÿ	ERRL	Υ	J	<u>เห-หล</u>	R	Af	PR-J	UN	J	JL-SI	EP	0:	CT-DI	EC
[day	nit	din	day	nit	den	day	nit	d&n	day	nit	dan	day	nit	dên
100 MHz	8	- 6	 0	Ø	9	- 0	9	0	0	1	8	•	9	- 0	8
1 GHz	11	5	8	5	2	3	12	6	9	18	9	14	7	4	6
3 GHz	13	7	10	6	3	5	15	7	_ 11	22	. 11	_17	9	5	7
6 GHz	26	17	21	16	11	14	25	15	20	37	25	31	25	17	21
10 GHz	55	47	51	48	43	45	51	42	47	62	53	58	59	52	55
20 GHz	73	69	71	68	66	67	70	66	68	76	71	74	78	74	76

SUPPORE RASED DUCT SUMMARY:

PARAMETER	Y	ERPL	Y	J	AH-M	ñR	AF	R-J	JN	JI	JL-51	EP	01	T-DI	<u> </u>
	day	nıt	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	ota
Percent occurrence	2	2	2	0	1	1	3	2	3	4	2	3	2	1	2
AYS thickness Kft			.32	1		.28			.30			. 47	l		. 25
AVG trap freq GHz			1.4	}		1.3			1.5	ĺ		.72			2.6
AVG lyr grd -H/Kft	L		108	Ĺ		79			128			107	<u> </u>		126

FFEANIER ROFT SOUUME														
PARAMETER	YEAR	RLY	J	an-Hi	R	Al	R-JI	JN	31	JL-SI	EP	0.0	CT-DI	EC
	day ni	it d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	กระ	GEn
Percent occurrence	16 1	18 17	9	10	10	16	18	17	24	29	27	16	15	15
AVG top ht Kft		4.6	1		4.2	l		4.4			4.7			5.1
AVG thickness Kft		.41	Ĺ		.31	L		.37	L		.59		_	.37
AYG trap freq GHz		.47			.67			.47			.21	I		.55
RVG lyr grd -N/Kft		59	l		56	!		52	l		62	l		33
AVG lur base Kft		4.3			4.0			4.2	[4.3			4.8

EVAPORATION BUCK HISTOGRAM IN PERCENT OCCUPRENCE:

PERCE	NT	000	URRENCE	YE	ARL	Y	Ji	AH-M	R.	RF	R-J	JH .	J	JL-SE	È.	00	T-DE	i C
				day	nit	d&n	day	nit	d&n	day	nit	d&n	day	ni*	d&r.	day	nit	dan
0	:0	10	Feet	13	14	13	14	14	14	15	15	15	13	14	14	28	11	10
10	t o	20	Feet	14	17	16	17	19	ទេវ	16	20	18	11	16	13	13	15	!4
20_ ·	ŧ o	36	Feet	18	22	20	26	23	22	19	24	22	15	19	17	19	22	21
30	10	40	Feet	18	19	18	19	29	20	17	18	18	15	17	16	20	21	20
40	to	50	Feet	:2	12	12	12	12	12	10	9	10	11	12	12	15	14	14
50	to	60	Feet	8	6	7	7	5	- 6	6	5	5	8	7	8	9	. 8	9
60	10	73	Feet	3	3	3	2	2	2	3	2	2	5	4	4	4	3	3
70	to	88	Feet	2	1	2	1	1	1	2	1	1	3	2	2	2	1	2
88	to	90	Feet	_1	_1	_1	1		1	1	. 1	1	٠ 2	1	. 1	1	1_	_ 1
90	6	106	Feet	1	1	1	1	0	0	1	1	1	1	1	1	1	1	ī
abo	V 2	100	Feet	10	5	ř	5	2	3	11	5	8	16	8	12	7	3	5
. Ke an	'n	ngh:	t feet	45	35	48	36	3 i	33	45	33	39	56	41	49	42	36	39

PATAMETER	YE	ARL	?	Ji	H-M	AR	H	R-Je	JN	J	JL-3§	P	Ġ	T-DE	:C
i	day	nit	<u>d&n</u>	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	dŁn
% occur EL&SB dcts			9			9			6			0			8
% occur 2+ EL dcts			1	ł		9	ļ		1			1	ŀ		1
AVG station 4	ŀ		332	ŀ		324	Ì		330	1		344			330
RVG station -H/Kft			14			13			14			15			13
AVG afc wind Kts	15	14	15	18	17	17	14	13	13	12	12	12	17	16	16

Specified location: 45 00 N 16 00 N (*) INDICATES INSUFFICIENT DATA Radiosonde source : 47K 45 00 N 16 00 N

Radiosonde station height: 39 Feet Surface obs source: KS146 45 00 H 15 00 H

PERCENT OCCUPRENCE OF ENKANCED SURFACE-TO-SURFACE RADAP ESH CCM PRIGES:

, E	MAN DIE	CED :	3UFF		10-31	DE LUI		· DITE	C 311		7 7 7 7 7 7	<u> </u>		
												1 -		-
day	nit	d&n	day	nit	d&n	day	nıt	der.	day	nit	dan	day	nit	d&n
0	9	9	Ø	Ð	8	9	0	9	Θ	8	6	9	6	υ
9	3	6	5	3	4	12	4	8	14	5	9	6	2	4
12	5	8	7	3	5	14	6	10	17	7	12	8	3	6
29	17	23	22	14	18	28	14	21	36	20	28	29	19	24
68	51	55	56	59	53	57	45	52	65	52	59	62	56	53
76	71	74	74	70	72	74	69	72	78	72	75	78	75	76
	9 12 29 68	YEARL day nit 0 0 9 3 12 5 29 17 60 51	YEARLY day nit d&n 0 0 0 9 3 6 12 5 8 29 17 23 60 51 55	YEARLY JI day nit dan day 0 0 0 0 9 3 6 5 12 5 8 7 29 17 23 22 60 51 55 56	YEARLY JAN-Middle of the state	YEARLY JAN-MAR day not den day not den 0 0 0 0 0 0 0 9 3 6 5 3 4 12 5 3 7 3 5 29 17 23 22 14 18 60 51 55 56 50 53	YEARLY JAN-MAR AI day nit day nit day	YEARLY JAN-MAR APR-JI day nit dan day nit dan day nit 0 0 0 0 0 0 0 0 0 9 3 6 5 3 4 12 4 12 5 8 7 3 5 14 6 29 17 23 22 14 18 28 14 60 51 55 56 50 53 57 46	YEARLY JAN-MAR APR-JUN day nit <t< td=""><td>YEARLY JAN-MAR APR-JUN JAN-MAR JAN-MAR JAN-MAR JAN-MAR JAN-MAR JAN-MAR JAN-MAR JAN-MAR <th< td=""><td>YEARLY JAN-MAR APR-JUN day nit dan day nit day nit dan day nit day ni</td><td>YEARLY JAN-MAR APR-JUN day nit dan day nit day ni</td><td>YEARLY JAN-MAR APR-JUN JUL-SEP OUTSEP day nit dan day nit d</td><td>YEARLY JAN-MAR APR-JUN JUL-SEP OCT-DIMEDIA day nit dan day nit day</td></th<></td></t<>	YEARLY JAN-MAR APR-JUN JAN-MAR JAN-MAR JAN-MAR JAN-MAR JAN-MAR JAN-MAR JAN-MAR JAN-MAR <th< td=""><td>YEARLY JAN-MAR APR-JUN day nit dan day nit day nit dan day nit day ni</td><td>YEARLY JAN-MAR APR-JUN day nit dan day nit day ni</td><td>YEARLY JAN-MAR APR-JUN JUL-SEP OUTSEP day nit dan day nit d</td><td>YEARLY JAN-MAR APR-JUN JUL-SEP OCT-DIMEDIA day nit dan day nit day</td></th<>	YEARLY JAN-MAR APR-JUN day nit dan day nit day nit dan day nit day ni	YEARLY JAN-MAR APR-JUN day nit dan day nit day ni	YEARLY JAN-MAR APR-JUN JUL-SEP OUTSEP day nit dan day nit d	YEARLY JAN-MAR APR-JUN JUL-SEP OCT-DIMEDIA day nit dan day nit day

SUPFACE BASED DUCT SUMMARY:

PARAMETER	¥1	ARL'	Ÿ	5	Ati-M	AR.	Al	アニノリ	JH	31	JL-S	EP	Đ,	CT-DI	EC
	day	nit	den	day	nit	dtn	day	nıt	din	day	nit	dtr.	day	nit	aln
Percent occurrence	2	2	2	2	3	3	3	3	ω	2	2	2	0	1	1
AVG thickness Kft	İ		.29	ļ.		. 34	İ		.21	1		. 35	1		.25
AVG trap freq GHz			2.2			2.5	l		1.2	ĺ		2.4	1		2.8
AVG lur and -H Kft	l		129	ļ		98			83			111			224

ELEVATED DUCT SUNHAPY:

i PARAMETER	YE	HARL'	Y '	Ji	H-HF	RR	l Al	PR-J1	אנ	31	JL-SE	P	1 0	CT-DI	EC
1	day	n) t	d&n	day	nit	dan	day	nit	d&n	day	nit	dån	day	nit	den
Percent occurrence	15	15	15	12	10	11	12	14	13	28	22	21	17	15	16
AVG top ht Kft			4.5	l		4.4	ł		4.0			4.7	i		4.9
RYG thickness Kft			.40	l		. 36			.41	<u> </u>		.45			.38
HVG trap freq GHz			.53			.68			.57			.37	i		, 49
NVG lun gnd -N/Kft			57	1		59	l		57			56	l		58
AVG for base Ift			4.2	l		4.2			3.6			4.4	ļ		4.6

OCT-DEC

JUL-SEP

EUMPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

		O11			•				• • • • • • • • • • • • • • • • • • • •		•••	•	-				
			day	011	d&n	day	nit	dan	Cay	nit	d&n	day	nit	din	day	nit	dt n
0 13	10	Feet	12	13	12	13	13	13	13	14	13	11	12	12	11	12	11
10 10	20	Feet	12	16	14	14	1?	15	13	18	16	11	16	13	11	13	12
20 10	39	cess	16	21	19	18	21	19	1?	23	20	14	20	17	16	19	_ 18
30 20	46	Feet	17	29	19	19	22	20	18	2:	16	15	19	17	17	20	_ <u>19</u>
48 10	50	Feet	1-	14	14	15	15	15	12	11	12	13	14	13	16	16	16
58 10	60	Feet	19	8	9	10	7	8	8	- 6	7	. 19		9	12	10	11
60 10	70	Feet	5	3	4	4	2	3	4	2	3	6	4	5	6	4	5
70 10	80	Feet	3	. 1	2	2	1	1	2	1	1	3	2	3	3	2	2
80 10	39	Feet	1	'ı	1	1		_ 8	1	1	1	2	1	1	2	. 1	_ 1
98 10	5	Feet	1	0	1	1	- 0	0	1	0	1	ī	1	1	1	0	ı
30048	10:	Fret	9	3	6	5	2	3	16	3	7	13	4	9	6	2	÷
Mean b	a ob	, Feer	45	34	40	38	31	35	46	32	39	54	37	45	44	35	49

PARAMETER	YE	ARL'	r	Ji	:n-M	3R	ñ	R-J	JH.	31	JL-SI	E.F	0	CT-D!	E¢
	dau	n • 1	dżn	day	nit	din	day	nit	din	day	nit	đền	day	nit	dt n
. occur ELESB dcts			0			8			8			0			0
% occur 2+ EL dcts			1			3	i		0			2	1		1
RVG station H			536	Ì		<i>3</i> 27			335			347	1		333
AVG station -N/kft	1		14			13	İ		14			15	1		13
AVG afe used 11s	17	16	16	20	1 3	19	15	14	15	14	13	13	18	18	13

Specified location:

45 60 H 25 60 H 45 88 H 16 88 H

(*) INPICATES INSUFFICIENT DATA

Radiosonde source : 4YK Radiosonde station height:

39 Feet

Surface obs source: M3147 45 88 H 25 88 H

PERCENT OCCURRENCE OF EJHANCED SURFACE-TO-SURFACE RADAP-ESM/COM RHNGES:

-																
Г	FREQUENCY	Ÿ	EARL	Υ	3	ลห-หเ	RR	A	PR-JI	UN	Jı	JL-SE	P	- 00	7 - 72	.C
1		day	nit	d&n	day	nit	d&n	day	nit	dan	day_	nit	din	day	nit	dŁn
Γ	100 MHz	0	6	8	0	0	- 8	8	0		3		9	8	- 0	9
i	1 GHz	10	4	7	5	3	4	13	5	9	17	6	11	7	3	5
L	3 GHz	14	6	18	7	- 4	5	16	7	11	21	. 8	15	٠	4	
Ī	6 GHz	32	21	27	25	18	21	38	17	_ <u></u>	41	24	35	34	25	29
ı	10 GHz	61	23	57	58	54	56	56	45	51	65	55	60	64	೮∌	52
Ĺ	28 GHz	75	72	73	74	74	74	7:	65	_ 68	27	72	75	78	76	7.7

SURFACE BASED BUCT SUNHARY:

	SURFRICE PRISED DUCK	Jennine				~~									
	PARPMETER	YEARLY	ľ	3	BH-MF	R	UF	R-JU	Ж	31	JL-5!	:F	00	T DI	EC
		day nit	den	day	nit	dån	day	nit	d&n	day	nit	dùn	day	nit	din
-	Percent occurrence	2 2	2	2	3	3	3	3	3	2	2	2	9	1	1
	AVG thickness Kit		.29	i		. 34	j		.21	ł		.35	}		.28
	AVC trap freq GHz		2.2			2.5	i		1.2			2.4			2.8
	AVG lyn grd - Lickft	l	129			98	L		83			112			224

ELEVATED DUCT SUKMARY:

PORAMETER	Y	ERRL	4	, J	เพ-พ	Ak	RI	P-J	UH	31	JL-SI	EP	01	CT-LI	EC
	day	nit	G£n.	day	nit	d&n	day	nit	dan	day	nit	สะก	day	nit	#in
Percent ersimmence	15	15	15	12	10	11	12	14	13	20	22	21	17	15	16
RYG top ht Kft	•		4.5	i		4.4	ļ		4.0	1		4.7	1		4.9
AVG thickness oft	L		. 40	i		.36	L		.41	I		. 45			.38
AVG trap free CHI			.50			.68			.57			.37			.49
AVC Tyle grd -HZKfc			57			59	ĺ		57	ĺ		56	ĺ		58
AVG lyr base Kft	1		4.2	ļ		4.2	ĺ		3.€	}		4.4	i .		4.6

SE WATERW JUST EISTREBOM IN BEDSELY RESUBBBUSE.

EANEARMITON SOCI PIE			KLE	<u> </u>	CURP									
PERCENT OCCUPRENCE	YERRLY		35	:M-M	R	AF	アーノ	JH	31	JL -58	P	01	7-08	C
[day nis d	&n	day	nit	dan	day	กาะ	đần	day	nit	den	day	nit	dan
6 to 19 Feet	14 14	14	14	12	13	17	17	17	14	14	14	12	12	12
19 to 20 Feet	12 15	12	12	14	13	14	1,8	16	18	13	12	11	12	12
20 to 30 Feet	14 19	17	17	_21_	19	15	26	17	12	_18	15	14	17	15
38 to 48 Feet	15 19	37	18	21	20	15	18	15	12	17	15	15	18	17
48 to 50 Feet	14 14	14	16	15	16	11	11	11	15	14	13	16	17	16
50 to 60 Feet	18 9_	9	10	ė	9	7	6	7	18	9	9	12	12	12
69 to 70 Feet	6 4	-5(5	4	41	4	2	3	6	- 3	3	8	- 6	7
78 to 80 Feet	3 2	3	2	1	2	2	1	2	4	3	3	4	3	3
80 to 90 Feet	2:	_!	_ 1	. 1	. 1	1	1.1	1	3	_ 1	2	2	1	1
98 to 108 Feet	1 1	1	1	8	1	1	1		2	\sim_1	1	1	8	
above 100 Feet	10 3	6	4	2	3	12	4	8	16	5	11	7	3	5
Hear height Feet	47 36	42	39	34	36	47	_33	48	58	3\$	48	45	38	42

PRRAMETER	YEARLY	JAH-HAZ	APR-JUN	JUL-SEP	OLT-DEC
	day nit din	day nit dan	day nit din	day nie den	day nie ofn
% occur EL&S& dcts	8	0	0	0	6
% occur 2+ EL dets	1	8	0	2	:
AVG station N	336	327	335	347	333
AVG station -H/Kft	14	12	14	23	13
AVG SEC WIND KES	17 16 16	21 19 28	15 14 15	1+ 13 13	19 17 15

(*) INDICATES INSUFFICIENT DATA

45 00 H 35 00 E Specified location: Radicsonde source : 4YD 44 60 N 41 00 H 39 Feet Ridinsonde station height: Surface obs source: M3148 45 68 N 35 88 H

PFECENT GCCRBBENCE	OF ENH	ANCED_1	205ct	ice-t	<u>0-51</u>	<u>JRFAC</u>	E RE	1CAP	ESH	COH	PPH	<u>:ES:</u>		
FREQUENCY	YEA	RLY	Ji	:พ-หล	R	AF	R-JU	JH .	JI	JL-S	F	00	CT-DE	C
i	day n	it din	day	nit	d En	day	nit	den	day	nit	dan	day	nit	der
106 HHz	1	0 1	1	1	1	8	8	8	1	6	1	1	1	1
j 1 GHz	11	5 C	5	3	4	11	4	7	20	7	14	7	4	6
3 GHz	14	7 11	7	5	ج ج	1.4	5	19	26	19	18	11	7	9
6 GH≥	34	23 29	26	28	23	28	15	22	46	29	38	36	28	32
10 GH7	62	56 59	62	59	68	54	44	49	67	59	63	65	62	63
ið GHZ	75	73 74	77	77	77	68	63	65	77	?4	76	73	77	77

SOMEHOE BHRED DOCK	<u>- יייייי</u>	KY:													
PARAMETER	YE	ARL	,	J	RH-M	RR	A	R-J	אנ	31	UL-SI	P	01	CT-DE	C
	Cay	211	dŁn	day	nit	din	day	nit	den	day	nit	d&n	day	nit	dtn
Percent occurrence	7	4	- 6	5	5	5	5	2	4	12	4	8	7	6	?
AVG thickness Kft	1		.26	Į .		. 19			. 23			.34			.26
AYG trap freq GHz	[1.6			1.5			2.8			1.2			.98
AVG lyr grd -H/Kft			113	<u> </u>		88	L		149	l		130	<u></u>		91

PARAMETER	Y	EARL'	۲.	31	AH-HI	AR	A F	2R-J1	เห	Jı	JL-SI	EP	0	CT-DE	EL
	day	nit	d&n	day	nit	dŧn	day	nit	den	day	nit	dån	day	nit	dtr
Percent occurrence	24	37	30	19	26	23	29	39	34	25	52	39	22	30	26
AVG top ht Kft	ı		4.7	1		5.0	1		4.6	ł		4.2			4.9
AVG thickness Kft	Ì		.43	!		.34	<u> </u>		.43	}		. 55	l		.46
AYG trap freq GHz			.39			.52			.38			.24			.43
AVG lyr grd -N/Kft	ļ		62	l		60	ŀ		61	i		64	ļ		62
AVG lyr base Kft	1		4.4	!		4.7	1		4.3	í		3.8	i		4.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PEPCENT	OSCL	PRENCE	YE	ARL	í	J	AH-H	1Ř	AI	R-J	ŲN	J	JL-S	EP	00	T-DI	C
			day	nit	dan	day	nit	d&n	Çay			day	nit	dån	day	กาเ	din
0 10	10	Feet	15	15	15	13	11	12	20	21	21	16	15	15	13	12	13
10 10	28	Feet	11	13	12	11	12	11	13	17	15	9	12	11	19	11	18
20 tc	36	Fee:	14	17	16	16	19	17	15	19	17	11	15	14	14	15	_15
36 10	48	Feet	15	18	17	19	21	20	14	17	16	11	16	14	13	18	16
48 10	56	Feet	14	16	15	18	18	18	12	12	12	11	14	13	16	18	17
50 10	60_	Feet	11	10	10	12	10	11	8	6	7	16	11	19	14	13	13
68 to	70	Feet	9	-4	5	5	4	4	4	3	3	7	5	- 5	8	6	7
70 to	80	Feet	3	2	3	2	2	2	2	1	2	4	3	4	i +	3	4
80 to	98	Feet	ı	. 1	1	. 1	0	1	_1	. 1	1	2	1	2	1	1	1
98 10	100	Feet	ī	0	1	1	8	9	1	1	1	2	1	1	1	9	0
sbove	105	Feet	8	3	2	3	1	2	10	3	€	15	5	10	4	1	3
near he	1 ghi	Feet	45	36	48	<u> 38</u>	34	33	43	31	37	57	41	49	42	37	39

PARCHETER	YE.	REL	;	J	an-m	AR	A.F	アーノし	JH	3	UL-SI	EP.	ŏ	CT-DI	EC _
	بزج ال	nit	ರ೩೫	day	211	dan	day	rit	dån	day	071	din	đảy	nit	din
% occur ELESB Jela			1			1			1			2			ī
2 organ 2. at doss			3	i		1	1		3			6			3
PVC starton h			336	l		324	l		333	İ		351	ŀ		336
AVG station -N/Kft			15	!		13	i		14	l		17	i		14
AVG sec wind Cis	18	17	18	23	22	22	16	15	16	14	13	14	21	19	20

HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 44 00 H 41 00 H (*) INDICATES INSUFFICIENT DATA Radiosonde source: 4YD 44 00 K 41 00 K

Radiosonde station height: 39 Feet Surface obs source: MS149 45 00 N 45 00 N

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YI	ERRL	Y	31	RH-N	R R	RI	PR-JI	JН	31	JL-SI	P	00	CT-DI	EC
	day	nit	din	day	nit	din	day	nit	din	day	nit	dan	day	nit	dtn
189 MHz	1	. 0	1	1	1	1	8	9	9	1	9	1	1	1	1
1 GHz	9	4	7	4	3	3	9	3	6	17	6	12	7	4	5
3 GHz	13	6	9	6	4	5	11	4	8	23	8	15	16	6	8
6 GHz	28	29	24	22	18	20	22	12	17	39	26	33	38	25	28
10 GHz	52	46	49	58	47	48	42	35	39	69	51	55	56	52	54
20 GHz	65	62	63	65	64	64	53	51	53	69	65	67	78	68	69

SURFACE BASED DUCT SUMMARY:

IREPS REY 2.1

PARAMETER	, i	EARL	Y	J	RN-H	RR	A	PR-J	UH	3	UL-S	EP	0	CT-D	EC
[day	nit	u&n	day	nit	d&n	day	nit	din	day	nit	dŁn	day	nit	d\$n
Percent occurrence	7	4	6	5	5	5	5	2	4	12	4	8	7	6	7
AYG thickness Kft			. 26	1		.19	[.23			. 34	1		-26
RVG trap freq GHz			1.6	ı		1.5	1		2.8	i		1.2	1		.98
AVG lyr grd -N/Kft	L		113	<u> </u>		68	Ĺ		149			136	<u> </u>		91

FI EVATED DUCT SUMMARY:

PHREMETER	Ÿ	EUST.	·	J	คพ-พ	R.	A:	PR~JI	אט	71	JL~SI	P	O	CT-D	EC
	day	nit	din	ووق	nit	din	day	nit	d&n	day	nit	d£n	day	nit	dan
Percent occurrence	24	37	30	39	26	23	29	39	34	25	52	39	22	38	26
AVG top ht Kft	İ		4.7			5.6	ł		4.€	l		4.2	ļ		4.9
RVG thickness Kft	Ĺ		.43	L		.34	<u> </u>		.43	L		.55	<u> </u>		.48
AVG trap freq GHz			.39			.52	I		.38			.24			.41
AVG lyr grd -N/Kft			62			68	i		61	i		64			62
AVG lyn base Kit			4.4	•		4.7	i		4.3	Į		3.8	ĺ		4.6

EVAPORATION DUCT MISTOGRAM IN PERCENT OCCURRENCE: PERCENT OCCUPRENCE YEARLY JA4-HAR RPR-JUN JUL-SEP OCT-SEC day nit dan day nit dan day nit dan day nit dan day nit dan 0 to 10 Feet 10 to 20 1€ ò Fee: 28 to 30 Foet :7 :5 30 to 40 Feet 40 to 50 Feet 58 to 63 Feet 68 to 78 Feet Feet 70 to 80 ı 80 to 93 feet 98 to 109 Feet ē ī ī ī i ī above 180 Feet Mean height Feet

PARAMETER	YEARI Y		36	N-HAR		AP	R-JI	×	Ji	IL-SI	P	00	T-DI	<u> </u>
	day nit	dŁn	day	nit di	'n	day	nit	dia	day	nit	d&n	day	nit	din
% occur ELASB dcts		1			1			1			2			1
% occur 2+ EL dcts		3	ſ		1			3	ļ		6	İ		•
RVG station N	ĺ	336		33	24			333	[351	i		336
RVG station -N/Kft	ĺ	15	i	:	13			14			17	1		14
AVG ofc wind Kts	18 17	18	22	21 2	<u>22</u> j	15	15	15	14	13	13	21	19	20

(*) INDICATES INSUFFICIENT DATA

(12)

Specified location: Radiosonde source : 72807

47 18 N 54 00 H

Radiosonde station height: 52 Feet Surface obs source: MS158 45 88 N 55 88 H

PERCENT (CCURRENCE	OF E	чнан	CED !	SURF	ICE-	10-SI	URFRI	CE R	DAR	ESH.	COM	FAN	55S:		
FRE	DUENCY	71	EARL	Y	Ji	H-H	38	AI	アネーブリ	IH.	JI	JL-SE	EF	ő	CT-PE	EC
		day	nit	d&n	day	nit	den	day	ni:	dtn	day	nit	dan	day	nit	dan
160	HHz	9	9	8	0	8	0	8	8	8	1	1	1	9	. 0	8
1	GHz	7	3	5	2	1	1	7	2	5	15	8	11	3	2	3
3	GHZ	9	5	7	_ 3	2	2	18	4	7	20	11	15	5	4	5
6	GHz	23	18	28	12	10	11	19	11	15	36	28	32	24	22	23
19	GH2	42	40	41	38	31	38	34	29	32	54	32	53	49	48	49
28	SHz	54	54	54	44	46	45	44	42	43	63	63	63	65	65	65

SURFACE BASED DUCT	รบทุกเ	HKY:													
PARAMETER	Y	EARL	Ý .	J	RH-MI	AR.	Al	P-J	NH	7	JL-SI	P	Ö	CT-DI	EC
1	day	nit	ot n	day	nit	d&n	day	nit	d&n	day	nit	d£n	day	nit	dån
Fercent occurrence	3	2	2	1	_1	1	4	1	3	5	6	6	0	1	1
AVG thickness Kft	1		.38	l		.12			.17	l		.3€			.54
AVG trap freq GHz			1.8			1.9			4.3			.77	1		.38
AVG lyr ard -N/Kft	l		116	İ		99			141			96			128

PARAMETER	Y	EAKL'	Y	3	คห-หเ	RP	A)	R-J	Hi	Ji	JL-51	EP	_0	CT-DI	EC
	day	nit	dan	day	nit	ゴ &ก	day	nit	din	day	nit	d&n	day	nit	d&n
Percent occurrence	11	16	13	7	4	6	9	12	11	20	33	27	7	14	11
AVG top ht Kft	ì		3.9	1		2.7	Ì		3.5	i		4.3	1		5.2
KVG thickness Kft	ļ		-31	L		. 18			.39			.41	<u> </u>		. 26
AYG trap freq GHz			1.1			2.3		-	.73			.45			.94
AVG lyr grd -N/Kft	<u>!</u>		53	į		54	Ì		67	ŀ		57			58
AVG lyr base Kft	l		3.7	1		2.5			3.2			4.8	1		5.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCUR	REKCE	77	BRLY	•	Ji	3:4-1:5	1Ř	67	K-J	JΗ	31	JL-S.	1 0	00	T-DE	EC
	i	day	nis	dan	day	กะเ	dìn	day	nit	den	day	nit	CLO	day	nit	dèr.
9 to 18 F	eet	31	29	38	32	30	31	43	42	42	29	27	28	20	19	13
10 to 20 F	eet	16	17	17	25	24	24	15	16	16	18	11	11	1 44	15	15
_ 28 to 38 F	cet	12	14	13	14	15	14	10	13	:1	16	12	11	16	17	16
38 to 40 F	ser	10	13	12	10	12	11	8	10	Ş	9	13	11	14	15	15
40 to 50 F	eet	9	10	9	8 j	9	3	7	7	7	9	13	10	11	11	11
50 to 6⊎ F	est	_ 7	7	7	5	5	_ 5	5	4	5	7	- 3	8	9	9	9
60 to 70 F	ees	4	4	4	-2	2	2	3	5	2	-6	5	- 6	6	6	3
70 tc 80 F	eet	3	2	2	1	2	1	2	1	1	4	3	4	3	3	3
80 to 90 -	261	1	1	1	1_		1	<u></u>	1	1	3	1	. 2	1	:	1
90 to 100 F	255	1	8	1	8	8	8	1	0	1	2	1	1	1	i	<u>1</u>
above 100 F	eet	C	2	4	1	1	1	6	2	4	12	5	9	3	2	2
Hear, height	Feet	34	29	31	24	23	24	29	23	56	46	36	41	36	33	34

PARAMETER	YEARL	′	JAN	I-KAR	APK-JU	Jis .	JUL−:	SEP	05	T-DEC	:
	(da) nit	dan	day n	it din	day nit	dŁn	day ni	t dan	day	nit c	1En
% occur EL&SB dcts		2		0		9		į			0
% occur 2+ EL dcts		2		9		1		4	ì		1
AVG station N		322		310		319		341	į	3	317
RVG station -N/Kft		12		21		:2	ł	15	!		12
AVG sfc wind fts	17 17	17	21	28 21	15 15	15	14 1	3 :3	28	19	19

HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 47 84 N 52 45 W (*) INDICATES INSUFFICIENT DATK Radiosonde source: 72881 47 84 N 52 45 W

Radiosonde station height: 463 Feet

Surface obs source: MS150 45 00 N 55 00 H

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESY/COM RANGES:

	FRE	UENCY	Y	ERRL	Y	J	AN-M	AR	AI	PR-J	JN	10	JL- SI	EP	0	CT-DI	EC
	_		day	nit	den	l day	2.13	420	day	nit	din	day	nit	080	day	ni*	dt 1
	1.00	MHZ	Ø	- 0	8	8	9	0	Ð	0	9	\$	e	G	0	6	8
İ	1	GHz	6	3	5	2	1	1	7	2	4	14	6	10	9	2	3
Ł	3	GHz	9	4	7	3	1	2	9	3	6	19	9	14	_5	5	5
	6	GHz	22	17	28	12	9	11	18	11	15	36	26	31	24	22	53
1	10	GHz	41	39	49	38	38	30	33	29	31	53	56	52	49	48	49
L	20	GHz	53	53	_53	43	45	44	43	41	42	63	62	62	65	65	65

SUPPRICE BASED BUCY SUMMARY:

IREPS REV 2.1

PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit dan	day nit dan	day nit dan	day nit dan
Percent occurrence	2 1 1	1 8 1	1 0 1	4 3 4	9 2 1
AVG thickness Kit	.23	.15	.14	.36	.25
AVG trap freq GHz	1.8	3,7	.64	1.2	1.8
AVE lyn and -N/Ffs	258	295	388	79	306

ELEVATED DUCT SUMMERY:

PARAMETER	Y	EARL'	Y	31	AH-M	ar.	স	PR-JI	UH	Ji	JL-St	EP.	0	CT-DI	EÇ
	day	nit	4Łn	day	nit	din	day	nit	dån	day	nit	d&n	day	125 %	dt n
Percens occurrence	20	25	23	7	14	11	20	23	22	33	35	34	19	31	25
AVG top ht Kft	Ì		3.3	1		2.3	[3.7	1		3.9	[3.3
AVG thickness Kfs			.32	L		.19	!		. 32	L_		37	I		.38
AVG trap freq GMz			-81			1,9			.53	i		.43	1		.41
AVG lyr grd -N/Kft	1		62			52	1		60	}		54	ļ		6.2
AVG lyr base Kft	Ī		3.1	ĺ		2.1	}		3.5	•		3.7	ì		3.1

EVAPORATION BUCT HISTOCRAN IN REPORT OCCUPRENCE.

PERCENT OC	CURRENCE	YE	ARLY	,	3	คพ-พเ	13	ħ.	アトノリ	/11	31	ルー55	P	CC	T-DE	C
		Çay	nit	dŁn	day	nit	d&n	day	nit	ರತಿಗ	dav	nit	din	day	nit	<u>den</u>
8 :0 10	Faet	31	29	30	32	38	31	43	42	42	29	27	28	20	19	1.
18 to 28	Feet	16	17	17	25	24	24	13	16	16	19	11	11	14	16	15
20 to 30	Feet	12	14	13	14	15	14	19	13	11	16	12	11	15	17	16
30 to 43	Feat	19	13	13.	10	12	11	8	16	-3	9	13	11	14	\$5	15
48 to 58	Feet	9	18	9	j 8	9	8	7	7	7	9	12	18	11	11	11
58 to 60	Feet	7	7	7	3	_ 5	_ 5	5	4	5	7	9_	8	9	9	. 3
68 to 70	Feet	4	4	4	5	2	2	3	2	2	6	5	5	٥١	6	_ {
70 to 80	Feet	3	2	2	1	1	1	2	1	1	4	3	4	3	3	3
80 to 96	Feet	1	1	1	1	8	1	1_1	1	1	3		2	1_	1	. 1
90 to 16	0 Feet	1	Ð	1	8	8	ß	1	- 0	:	7	1	1	ī	1	1
above 10	8 Feet	6	2	4	1	1	1	6	2	4	12	5	9	3	2	2
Bean heig	he Feet	34	29	31	24	23	24	29	23	26	46	3€	42	36	33	34

PARAMETER	YEñ	RLY	7	JA	N-MI	RF.	A:	r-Ju	H	J.	12-55	P	03	7-16	:C
	day n	it d	زجا	day	กเเ	own	day	nit	din:	day	nit	dtn	day	nit	cin
% occur ELLSB dets			9			8			8			1			6
% occur 2+ EL dcts			3			٤	İ		4			5	i		- 4
RVG station N		3	ssl			397	ĺ		314			331			313
RYG station -H/Kft			13			12			12			15			12
AVG EFC wird Kts	17	17 _	17	21	36	21	13	15	- 55	14	13	13	26	19	19

1

COT-DEC

IREPS REV 2.1 48 31 N 58 33 H (*) INDICATES INSUFFICIENT DATA Specified location:

Radiosonde source : 72815 48 31 N 58 33 H Radiosonde station height: 197 Feet Surface obs source: MS150 45 80 N 55 00 H

PERCENT OCCUR	PENCE OF E	NHAN	CED S	SURF	ACE-	ro-st	JRFA	CE RE	ADAR.	ESH	COH	RANG	GES:		
FREQUENC	Y	EARL'	7	J	AH-HI	R.	AI	R-J	JH	3	UL-SI	EΡ	01	T-D	EC
į .	day	nit	den	day	nit	din	day	nit	dan	day	nit	dŧn	day	nit	dan
18G HHz	1 8	6	e	8	9	8	ð	1	0	9	1	0	9	8	0
1 GHz	1 4	3	5	2	1	1	7	4	5	13	7	10	3	2	2
3 GHz	9	5	_ 7	3	2	. 2	9	. 6	7	18	10	14	5	3	4
6 GHz	22	15	28	12	:0	11	18	14	16	35	27	31	24	21	22
19 GHz	41	48	41	39	31	30	33	32	32	53	51	52	49	48	48
28 GHz	53	54	54	43	46	45	43	44	43	62	63	63	65	64	65

SURFACE BASED DUCT SUMMARY: YERRLY JAN-HAR APR-JUH JUL-SEP OCT-DEC PARTIER dav nit dån day int dan day nit din day nis dan day nit can Percent occurrence 2 3 9 ĩ .29 .23 .17 .22 .26 **RVG** thickness Kft 1.5 2.8 1.6 1.3 .43 AVG trap freq GHz 197 AVG lyr grd -N/Kft 156 222 117 28

PARAMETER	Y	EARL	Υ	3	HH-H	9R -	ñi	FR- 7	UN	Ji	UL-SI	EΡ	00	CT-DI	EC
	day	nit	dŧn	vay	nit	din	day	niz	ರಹಿಗ	day	nit	dŁn	day	nit	dtn
Percent occurrence	14	- 16	15	4	4	4	19	13	12	29	32	31	14	15	15
AVG top ht Kft	1		4.5	l		3.3			5.0	İ		5.1			4.5
AVG thickness Kft	.		. 27	<u>.</u>		.28	l		. 24			.35	l		.2
AVG trap freq GHz			1.8			1.6			1.2			. 54			.73
AVG lyr grd -N/Kft	l		57	i		53			59	İ		59	i		57
AVG for base Ift	ł		4.3	ļ .		3.1	Į .		4.8	Į.		4.9	l		4.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE: APR-JUN PERCENT OCCURRENCE YEARLY JAN-MAR JUL-SEP OCI-DEC day nit din day nit dan dav nit dån day nit dtn day nit dan . 3 29 36 43 20 19 0 to 10 Feet 31 30 32 31 42 42 29 27 28 25 24 24 10 to 20 Fee: 16 17 17 15 16 16 18 11 11 14 16 15 17 15 20 to 38 Feet 12 13 14 14 10 13 1: 10 12 11 16 :5 30 to 48 10 13 12 16 12 11 8 18 9 13 11 14 15 15 Feet 40 to 50 Feet 9 10 9 ક 9 8 7 7 7 9 12 19 11 11 11 7 58 to 66 Feet 7 9 8 Ģ 9 2 2 3 2 2 6 5 60 to 70 4 4 4 5 6 6 Feet ž 78 to 88 Fees 3 2 2 1 1 2 1 1 3 3 3 80 to 90 Feet 90 to 100 Feet ī ē છ ī Ð 1 8 i 1 1 1 above 100 Feet 6 2 6 2 12 5 9 3 2 2 1 1 Hean height Feet 23 46 36 33 34

GENERAL METEOROLOGY SUMMARY: YERRI.Y PARAMETER

			-			***	, ,,,	., .,				_,		•• ••	
	day	nit	130	day	011	den	day	nit	づをか	day	nit	din	day	nıt	dan
occur EL&SB dcts	T		8			9			0			6			Ð
voccur 2+ EL dets	l		t	ļ		0			1			4	i		1
AVG station H	1		318	;		310	i		315			334	1		312
AVG station -N/Kft	ł		12	1		11	1		12			14	l		11
AVG sfc wind kts	17	17	17	21	20	21	15	15	15	14	13	13	28	19	19

JAN-HAR

APR-JUN

т

JUL-SEP

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 43 55 N 60 01 W (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 72680 43 55 N 60 01 N

Radiosonde station height: 7 Feet Surface obs source: MS151 45 88 N 65 68 N

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

CHOCKE COCONNEHOL (<u> </u>	*****		30KF	IICE .			<u></u>	10.11			646 51 34	340.		
FREQUENCY	Y	ERRL'	Ϋ	31	<u> </u>	RR _	.91	PR-JI	JH _	J	UL-S	EP	00	CT-DI	EC
	day	nit	din	day	n <u>i</u> t	den	day	nit	din	day	nit	d&n	day	nit	din
100 MHz	1	1	1	0	0	0	1	0	1	2	2	2	0	- 6	0
1 GHz	9	6	7	2	2	2	11	5	8	18	15	16	4	3	3
3_GHz	11	8	10	3	2	3	14	8	11	22	19	2:	_5	5	5
6 GHz	20	17	19	9	7	8	21	15	18	33	31	32	18	17	17
10 GHz	38	35	36	25	23	24	31	27	29	48	47	47	46	43	45
20 GHz	51	59	59	42	42	42	41	37	39	57	58	57	65	62	6-

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY	7	31	H-HF	iR	AS	R-J	111	31	UL-SI	P	0:	CT-D	EC _
<u> </u>	day nit	din	day	nit	din	day	nit	din	dav	nit	dan	day	nit	ರೆಸ್ಟ
Percent occurrence	5 5	5	2	1	2	7	4	6	11	14	13	8	2	1
AVG thickness Kft	ĺ	. 34	!		.20			.32			.49	[. 35
RVG trap freq GHz	!	1.1	l .		2.2	i		1.2			.52	l		.63
RVG lyr grd -N/Kft	1	107	L		120	l		105			94	l		198

ELEVATED DUCT SUMMARY:

PARAMETER	7	EARL'	Y	J	Ali-N	AR	A	PR-J	UH	J	JL-SI	EP	Ĉ	T-D	EC
	day	nit	din	day	nit	din	day	nit	din	day	nit	din	4.5	ពារ	den:
Percent occurrence	21	27	24	13	15	14	16	23	28	32	43	38	23	27	25
AVG top ht Kft			3.7	i		3.3	i		3.1			4.3			4.1
AVG thickness Kft	í		.33	<u> </u>		.23	i		. 35			.41			. 32
RYG trap freq GHz			+61	Γ		1.0			.46			-38			.€0
AVG Tyr grd -N/Kft	1		61	[59	l		64			5:			SØ
AVE tur hase Kft	i		3.5	ļ		3.1	ŀ		2.4	i i		4. A	i		3.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE?

PERCEN	17	OCC	JRRENCE	Y	BRL	1	J	H-HA	RR	, R	PR~JI	JH	31	JL-S	C\$9	0	CT-DI	ÉĊ
				day	nit	din	day	nit	d\$n	day	nit	din	day	211	din	dav	nil	
0 t	0	10	Feet	34	34	34	31	31	31	48	48	48	38	36	3?	19	21	- 20
10 t	e	28	Feet	17	19	18	27	27	27	16	18	17	11	12	31	15	17	16
20 t	0	38	Feet	14	15	15	17	18	_18	18	16	_10	10	12	11	19	20	19
30 t	0	48	Feet	11	11	11	11	11	11	7	ક	7	8	11	9	17	16	16
40 t	0	50	Feet	7	7	7	6	5	5	4	5	4	7	ક	8	12	10	11
50 t	0	60	Feet	5	5	_ 5	3	3	3	3	3	3	_ 5	6	5	_ 7	7	7
60 t	0	78	Feet	3	3	3	- :	1	1	2	2	2	4	4	4	4	4	4
78 t	0	88	Feet	2	1	2	1	9	3	1	1	1	2	2	2	2	2	2
80 t	0_	98	Feet	1	1_	1	6	9	8	1	1_	1	_ 2	1	1	_ 1	1_	1
90 t	0	100	Feet	1	1	1	9	8	- 6	1	1	1	1	1	3	1	1	1
abou	•	100	Feet	ő	3	5	2	1	2	8	4	6	11	6	÷	4	2	3
Hean	he	aght	Feet	31	27	29	23	21	22	28	22	25	39	32	36	34	31	: 3

PARAMETER	YEARLY	7	JF	iti-Kf	₹Ř	AF	R-J	JH.	- 31	JL-SE	P	01	T-DE	<u>. </u>
	day nit	din	day	nit	din	day	nit	dan	day	nit	din	day	វា វ វ	₫\$.n
% occur ELLSB dcts		1			8			0			3			1
% occur 2+ EL dcts			Į.		e			2			9	[2
RVG station N	İ	327	ł		314			324			347	l		351
AVG station -N/Kft		14	İ		12	l		14			17	į		12
RVG sfc wind Kts	16 16	16	20	19	20	14	14	14	12	12	12	18	17	:8

43 43 P 35 15 H 43 43 H 65 15 K

(*) INDICATES INSUFFICIENT DATA

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Radiosonde source : 74399

Radiosonde station height: 92 feat Surface obs source, MSIC1 45 88 i. CS 88 N

PERCENT OCCURRENCE	GF_E	HAHM	CCD :	SURF	RCE-	ro-si	<u>JPFRC</u>	E RA	DAP	/ESH/	<u>C</u> SH_	85H	SES:		
FREQUENCY	Y	ERKL	Υ	J	8N-11	RR	ละ	R-JL	M	Ji	1 -5:	37	T 6:	T-2.	£
	<u>Jay</u>	nit	din	<u>lday</u>	nit	46.	day	nit	den	day	Git	dyn	day	ni*	dtn
188 MH2	1		1	*	1	*	1	-3	8	1	1	1	. 6	8	6
1 GHz	12	5	8		4		11	غ غ	7	15	8	12	5	3	4
1 3 5Hz	114	7	10	. *	*	_ <	14	5	18	19	11	15	7	5_	i
6 GKz	24	17	5:	*	*	*	21	12	17	33	-23	27	20	17	13
i 19 GHz	; 42		39	•	•	*	32	24	28	45	A:	43	48	¢3	46
20 GHz	<u>Ļ31</u>		32	i e		ر څه	<u> </u>	-33	_33	55	53	54	66	<u>63</u>	64

SUPFACE BASED DUCT CUMMORY:

PERAMETER		RLI	,	₹7	111- 7	982 316	A	R-JI	J!!	31	١.٠٠,	F P	70	:1~(*	;ē``_
	day .	ai c	dtr	day	nit	d\$r	day	nit	dzn	day	rit	dere	day	ni:	den
Fercent occurrence	4	2	3	0	9	9	7	-5	۳,	7	4	€	3	3	3
AVG thickness ket			.34	i		*	l		. 43	ì		.46			. 4.7
AVG trup freq GHz	l		.82	•					.51			.67	•		.88
AVG lor grd -H/Krt			129	<u> </u>		*	L		102			ક્ક			269

FLEVRIER BUCT SUMMARY:

PARAMETER	71	EARL'	7	} J	พ-พ	32	AF	- R-J	H	Ĵį	JL-SE	P	00	T-DE	EC
	day	nit	der	day	ការ	den	day	nit	din	day	nit	dzn	day	210	dan
Percent occurrence	24	24	24	10	19	10	20	25	23	37	38	38	27	24	26
AVG top ht Kft			4.8	1		*	į .		5.0			5.7			3.9
AVG thickness Kft	Ĺ		.36	l		.32			. 34			.43	1		.34
AVG trap freq GHz			.50			.54			.59			.32			.56
AVG lyr grd -N/Kft			60			•			55			65			59
AVG for base Kft			4.2			3.2			4.7			5.4			3,6

EVAPORATION DUCT	41570G	RAH	IN P	ERCE	NT O	CCUP	PEHC	E:							
PERCENT OCCURREN	CE Y	EARL	Y	31	คม-สเ	R	A	R-JI	JN	J,	JL-SI	EP_	Gi	T-DI	EC
L	day	nit	dkn	day	nit	din	day	การ	din	day	nit	den	day	nit	dt.r.
0 to 18 Feet	34	34	34	31	31	31	48	48	48	38	36	37	19	21	28
18 to 28 Feet	17	19	18	j 27	27	27	16	18	17	j 11	12	11	15	17	16
20 to 30 Feet	14	15	_15	17	18	18	10	10	10	18	12	11	19	20	19
38 to 40 Fest	11	11	11	111	11	11	7	3	7	8	11	9	17	16	16
48 to 58 Feet	7	7	7	6	5	5	4	5	4	7	8	S	12	19	11
50 to 60 Feet	_ 5	5	3	3	3	. 2	3	. 3	3	. 6	6	6	7	7	7
60 to 78 Feet	3	3	3	1	1	ī	2	2		4	-~	4	4	4	- 4
70 to 80 Feet	2	1	2	1	9	1	1	1	1	2	2	2	2	2	2
88 to 90 Feat	1		1	9	8	0	1_1_	_ 1	. 1	2	1	1	1	. 1	
90 to 100 Feet	1	1	1	8	6	0	1	1	1	1	1	1	1	1	:
above 108 Feet	6	. 3	5	2	1	2	8	4	6	11	6	9	4	2	3
Hean height fee	1 31	27	29	23	21	22	28	22	25	39	32	36	34	31	33

YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
day nit dan	day nit dan	day nit den	day nit dan	day nit din
1	8	1	3	ī
5	1	4	11	3
324	311	323	344	317
j :3]	11	12	15	12
16 16 16	28 19 28	14 14 14	12 12 12	18 17 18
	day nit dan 1 5 324	day nit dan day nit dan 1 0 5 1 324 311	day nit dan day nit dan day nit dan day nit dan 1 0 1 5 1 4 324 311 323	day nit dan day nit dan day nit dan day nit dan 1 0 1 3 5 1 4 11 324 311 323 344

Specialed lucation:

Radiosonde source : 72523 42 55 N 78 43 H

Radiosonde station height: 715 Feet

Surface obs source: KS116 35 08 Nº 75 88 H

PERCENT DECURRENCE	OF E	<u>нипн</u>	CED	SURFI	HCE-	10-5	URFRE	CE R	HCHR-	ESM.	COM	RANI	GES.		
FREQUENCY	۲	ESRL	Y	J	AH-HI	AR .	Al	R-J	אט	JI	UL-SI	EP	G	CT-DI	EC
	day	nit	dŁn	day	nit	d&n	day	nit	₫£n	day	nit	d£n	day	nit	d&n
100 MH2	7	1	1	<u>e</u>	8	- 8	1	1	1	1	2	1	0	9	0
j 1 GH≥	21	13	13	11	5	8	24	12	18	38	15	23	17	6	12
3 GHz	31		25	28	:1	16	33	19	26	48	_24	32	32	17	25
6 GHz	64	2.5	59	57	49	ಭೀತ	55	49	54	69	59	64	7.8	69	65
18 GHz	82	73	88	79	75	:"7	75	72	74	65	82	83	87	83	85
20 GHz	88	86	87	86	34	25	82	81	R1	50	83	99	92	99	91

SURFACE BASED DUCT SUMMARY:

~	OKT 1132 DILOCA DOO .	<u> </u>														
٢	PARAMETER	Y S	ARLY	1	Jį	H-NE	ar .	R	P-J:	J14	31	UL~S!	ĘP	01	T-DI	ES
L		day	nit	dan	davi	nis	dŁn	day	nit	din	day	nit	dan	day	ni:	dan
Г	Percent occurrence	6	6	6	3	2	3	9	9	9	8	12	10	3	1	2
Į	HYG thickness Kft	t		. 25	ł		. 18	[.29			.33	l		.21
ſ	AVG trap freq GHz	ļ .		1.8	•		3.0	[1.1	í		.77	·		2.3
Ĺ	BVG lyr grd -N/Kft	L		96	l		138	L		74	L		79	i		168

ELEVATED DUCT SUMMARY:

PARACETER	Y	EARL	Y	7	AN-M	AR.	AI	R-J	UN	Ji	JL-SI	EP	0	CT-DI	EC
<u> </u>	day	nit	atr.	day	กาว	d\$n	day	OIL	der	GAU	nit	d&n	day	nit	den
Percent occurrence	21	28	26	3	9	9	19	17	18	36	53	35	19	19	19
AVG top ht Kft			5.3			4.3	•		5.1			6.2	[4.6
AVG thickness Kft			.28	L		.24	ì		.26			.34	<u> </u>		.29
AVG trap freq GHz			.78			1.0			.77			.56			.83
AVG lyr grif -H/Kft	ŧ		58	l		59	l		58			59			55
RYG lyr base Kit			5.1		_	4.1			5.9			5.9			4.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCE	Яì	OCC	URRENCE	YE	HPL.	Y	-	AN-MI	R T	A	PR-JI	JN	71	JL-SI	Ρ	00	T-DE	:0
				day	nit	dŁn	day	nit	den	day	nis	d&n	day	nit	đãn	day	nit	din
0	10	18	Fees	9	9	9	19	19	18	15	14	15	7	-7	7	5	6	6
18	to	28	Feet	4	6	5	5	6	6	5	7	6	4	5	5	3	5	4
29	\$0	36	Feet	6_	8	. 7	7	9	8	7	9	8	- 6	8	7	5_	7	- 6
30	ŧo	40	Feet	8	<u> 11</u>	9	18	12	11	8	11	9	7	11	9	7	9	8
48	ŧο	56	Feet	1:	14	12	12	14	13	10	13	12	18	15	12	19	14	12
50	te	68	Feet	12	15	13	13	14	14	10	13	12	12	_16	14	13	15	14
63	` {o	70	Feet	12	13	12	13	13	13	9	10	19	11	13	12	13	15	14
78	30	88	Feet	13	10	10	11	10	19	8	8	8	8	9	9	13	12	13
- 98	to	98	Feet	_6	_ 5	6	_ 6	¢	5	5	4	4	_ 5	₹	5	9	7	8
99	tc	188	Feet	4	3	3	3	2	3	3	2	3	4	3	3	- 5	4	- 5
450	ve	100	Feel	19	7	13	19	4	7	21	8	14	27	9	18	16	6	11
Kear	h	e i gh	t Feet	71	54	62	59	59	54	69	51	69	84	57	70	72	58	65

PARAMETER	YERRLY	JAN-MAR	APR-JUH	JUL-SEP	OCT-DEC
	day niz der	day nit dan	day nit dan	day nit dan	day nit dan
% occur EL&SB dcts	,	1	1	3	3
% occur 2+ EL dcts		1	2	5	2
AVG station N	316	385	316	332	309
AVG station -N/Kft	12	11	12	14	11
AVG sfc wind Kts	15 15 15	18 18 18	14 14 14	12 12 12	16 16 16

41 40 N 69 58 H Specified location: Radioso de source : 74494 41 40 N 69 58 H Radiosonde station height: 52 Feet Surface obs source: MS151 45 00 H 65 00 H

PERCENT OCCUPACION O	35 -	чник	CED :	SUKF	HUE-	0-5	JKFH	JE KI	אאער	ESN.	/ CUM	KHM	<u> </u>		
FREQUENCY	Y	ERRL'	Y	JI	RN-MA	38	AI	R-JI	JN	3	JL-SI	EP	Ö	CT-DE	EÇ
	day	nit	dan	day	nit	d&n	day	nit	d&n	day	nit	ರ೩೧	day	nit	dŁn
100 HHz	2	2	2	0	8	0	_ 5	2	2	5	5	5	1	1	1
1 GHz	14	10	12	4	3	4	15	11	13	29	22	25	7	5	6
3 GH2	17	14	16	5	5	5	20	15	17	34	_28	31	10	8	9_
6 GHz	26	23	25	111	18	10	27	23	25	45	38	41	23	26	22
10 GH2	42	40	41	27	26	26	37	34	36	57	53	59	50	46	48
20 GH2	55	54	54	43	44	44	46	44	45	64	63	63	67	64	<u>66</u>

SUPERCE RASED DUCT SUMMARYS

PARAMETER	YE	ARL'	,	Ji	H-H	R _	e.	R-JI	JH .	- 31	S	EP	Ö	CT-D!	EC
	day	nit	dեn	day	nit	dŧn	day	nit	dan	day	nit	dan	day	nit	d&n
Percent occurrence	14	13	13	5	5	5	15	15	15	26	23	25	8	8	8
AVG thickness Kft	1		.30	1		.23	ŀ		.29			.46	ŀ		. 24
AVG trap freq GHz	i		1.1			1.8			.94			.35			1.4
AVG lyr grd -N/Kft	l		83	ļ		91			75			79			88

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EUST,	Υ	J	RH-MI	R T	R	-R-JI	JN	Jt	ルージ	P	00	CT-DE	EC
	day	nit	d&n	day	nit	d&n	day	nit	dan	day	<u>n</u> it	dtn	day	1:12	din
Percent occurrence	37	35	36	17	24	21	40	34	37	49	47	48	41	33	37
AVG top ht Kft	l		4.1	1		3.1			4.1	į		5.6	}		3.6
RVG thickness Kft	L		.38			.28	L		.36	<u> </u>		.49	L		.41
AVG trap freq GHz			.47			.89			.44			.28			.39
AVG lyr grd -N/Kft	l		61			63	i		58	ł		53	1		61
AVG lur base Kft	l		3.8			2.9		_	3.8			5.3			3.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCU	RRENCE	YE	ARLY	r	31	an-Hi	RR -	es.	R-JI	JN	3	JL-SI	EP .	G	T-DE	ĘĘ
			day	nit	dsn	day	nit	d&n	day	nit	din	day	nit	dan	day	nit	din
8 to	18	Feet	34	34	34	31	31	31	48	48	48	38	36	37	19	21	20
i0 to	29 1	Feet	17	19	18	27	27	27	16	18	17	11	12	11	15	17	16
28 to	39	Feet	14	15	15	17	18	18	10	18	18	18	_12	11	19	20	10
39 to	40	Feet	11	11	11	11	11	11	7	8	7	8	11	9	17	16	16
48 to	58	Feet	7	7	7	6	5	5	4	5	4	7	8	8	12	10	11
58 to	60	Feet	5	5	5	3	3	3	3	3	3	6	_ 6	6	7	7	7
60 to	70	Feet	3	3	3	1	1	1	2	S	2	4	4	4	4	4	4
78 to	80	Feet	2	1	2	1	8	1	1	1	1	2	2	2	2	2	2
80 to	98	Feet	1	. :	1		8	0	1	1	1	_2	1	1	1_1	1	1_
98 to	180	Feet	1	1	1	8	8	8	1	1	1	ı	1	1	ĵ	1	1
above	100	Feet	6	3	5	2	1	2	8	4	6	11	6	9	4	2	3
Hean he	1ghz	Feet	31	27	29	23	21	22	28	22	25	39	32	36	34	31	33

PARAMETER	Y	CARL	Y	Jf	3H-H	AR	A.	R-J	UH	31	JL-51	EP	90	T-DI	EC
	day	nit	d&n	day	nit	den	day	การ	ರಕ್ಕ	day	nı t	den	day	nit	d&n
% occur ELLSE dets			3			1			3			8			2
% occur 2> EL dc=3			5			1			7			3	i		3
SVG station II			339			315			331			352	1		320
AVG station -H/kft			14			12			15	J		18	l		13
AYC sfc wind kis	16	16	16	20	19	20	14	14	14	12	:2	12	18	17	18

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 41 18 N 70 06 W (*) INDICATES INSUFFICIENT DATA

Radiosonde source: 72506 41 18 N 70 06 H Radiosonde station height: 46 Feet

Surface obs source: MS151 45 00 N 65 00 H

PERCENT ACCURRENCE OF PROGRESS CURRENCE TO_CUREAGE RATES FOR COM PAULTS

PERCENT OCCURRENCE	OF ENHANCET	SUKPHCE-1U-S	OKENCE KHUNK	ESTITUT KAN	uES:
FREQUENCY	YEARLY	JAN-MAR	RPR-JUN	JUL-SEP	OCT-DEC
L	day nit di	n day nit dan	day nit dan	day nit din	day nit dûn
100 MHz	2 2	2 8 9 9	2 2 2	5 6 5	1 1 1
1 GHz	13 19 1	2 2 2 2	16 18 13	26 25 26	7 4 6
3 GHz	16 13 1	5 3 2 3	21 13 17	32 32 32	10 6 8
6 GHz	25 22 2	4 8 8 8	28 21 24	42 42 42	23 18 20
10 GHz	42 39 4	0 24 23 24	37 32 35	55 56 55	59 44 47
20 .z	54 53 5	4 41 42 42	46 42 44	62 65 64	67 63 ხა

SURFACE BASED DUCT SUMMARY:

PARAMETER	Ϋ́I	EARL'	Y	J1	N-MI	AR	RI	-71	JH	31	JL-SI	P	Q.	ÇT-D	EC
<u> </u>	day	nit	d&n	day	nit	dan	day	nit	đěn	day	nit	d£n	day	nit	d\$n
Percent occurrence	12	11	11	1	1	1	15	11	13	23	28	26	7	4	6
AVG thickness Kft	l		.39	1		. 26	l		. 41	ļ		.51	ĺ		.38
AVG trap freq GHz			. 69	[.88			.62			.38			1.0
AVG lyr grd -N/Kft			84	L		101			78			72			86

PURTER BURT CHMMRPY.

PARAMETER		EARL	Y	3	AN-MI	R	RI	PR-JI	UN	31	JL-SI	P	01	T-DI	<u> </u>
	day	nit	d&n	day	nit	d&n	day	nit	din	day	nit	dan	day	nit	dan
Percent occurrence	24	27	25	16	16	16	21	21	21	34	42	38	26	27	27
AVG top ht Kft	ĺ		3.2	Ì		2.8			2.2			3.7	l		4.1
AVG thickness Kft			.37			.26	<u> </u>		.41			. 42			.39
AVG trap freq GHz			. 49			.78			. 44			.37			.37
AVG lyr grd -N/Kft			59	i		58	1		57			61			62
AVG lyr base Kft	L		2.9	L		2.5	l		1.9	L		3.4			3.8

EVAPORATION DUCT HISTOGRAH IN PERCENT OCCURRENCE:

PERCENT	OCCURRENCE	Y	EARLY	7	J	AN-M	RR	A!	R-JI	JN	31	JL-S!	ΕP	00	T-DE	C
		day	nit	dŁn	day	nit	d&n	day	nit	dŁn	day	nit	d&n	day	nit	dtn
0 to	18 Feet	34	34	34	31	31	31	48	48	48	38	36	37	19	21	20
10 10	20 Feet	17	19	18	27	27	27	16	:8	17	11	12	11	15	17	16
20 to	30 Feet	14	15	15	17	18	18	10	18	10	10	12	21	19	29	19
30 to	40 Feet	11	11	11	112	11	11	7	8	7	3	11	5	17	16	16
48 to	50 Feet	7	?	7	6	ಕ	5	4	5	4	7	8	8	12	:0	11
58 to	68 Feet	5	5	_ 5	3	3		3	3	3	- 6	6	6	. 7	_7	- 3
60 to	70 Feet	3	3	3	1	1	1	2	2	2	4	4		4	1	4
78 to	80 Feet	2	1	2	1	0	1	1	1	3	2		2	: 3	2	2
80 to	90 Feet	1	1	1	9	6	. 8	1	1	•	2	_ 1	. 1	1	\$	(
98 to	100 Feet	1	1	1	8	- 9	8	7	1		1	3	1	1	ī	
aboue	100 Feet	ε	3	5	2	1	2	5	4	6	11	6	9	4	2	3
Hean he	ight feet	31	27	29	23	21	22	28	22	25	33	32	36	34	31	33

PARAMETER	YEARLY	_ [JRH-M	AR .	AP	R~JUH	JUL-SEP	OCT-DEC
	day nit d	&n]	day nit	din	day	nit din	day nit dan	day nin din
% occur EL&SB dcts		3		9		1	8	1
% occur 2+ EL dc*s		4		i	1	3	9	4
AVS station N	3	38[313	l	329	254	323
AVG station -N/Kft	ļ	15		12	l	15	j 19	13
AVG sfc wind Kts	16 16	161	20 19	29	14	14 14	12 12 12	18 17 18

49 39 N 73 46 W Specified location: Radiosonde source : 74486 40 39 N 73 46 H 26 Feet Radiosonde station height: Surface obs source: MSI16 35 00 N 75 00 W

DEPOSIT ACCURRENCE AS ENGANCES CHARGESTAL CHIREACE DARROVECH CON FAMILIES

ELCENI (JULOKAENUE	Ur 61	417171111	CED.	JURFI		, U - 31	JEFF	LERI	ngar.	E 311		20.00	36,3.		
FRE	JUENCY	YI	ENKL'	Υ	J	AN-MI	<u> </u>	A1	PR-J	UH	J	JL-S	EP	00	CT-DE	EC
		day	nit	dŧr.	day	nit	den	day	nit	dan	day	nit	dån	day	nit	dŧn
100	MHz	0	:	ī	8	9	Я	0	3	0	1	2	1	Ø	- 9	9
î	GH2	20	9	14	11	5	8	22	16	16	30	15	23	17	6	11
3	GH2	38	17	24	20	12	16	31	16	24	43	23	31	31	17	24
6	GHz	63	53	58	57	49	53	57	47	52	69	58	63	69	60	64
19	GHz	81	77	79	79	75	77	74	70	72	85	82	83	87	83	85
20	GH=	į 87	86	86	86	84	85	81	89	89	90	89	98	92	90	91

(*) INDICATES INSUFFICIENT DATA

3

PARAHETER	Y	ERRL	:	J	AH-M	AR .	A	R-JI	JИ	31	UL-S	EP	0	CT-D	EC
	day	nit	din	day	nit	d&n	day	nit	din	day	nit	dan	dav	nit	d&n
Percent occurrence	4	4	4	2	2	2	4	4	4	7	10	9		1	1
AVG thickness Kft	l		. 28	l		. 25			.30			.39			.20
AVG trap freq GHz			1,2	l		1.4			1.8			.56			1.9
AVG lyr and -N/Kft	i		189	ļ		97			91	1		81			1€7

FLEVATER BUCT SUMMARY:

PARAMETER	YI	ERRL'	'	Ji	ลพ-หเ	3.5	Af	R-J1	111	31	JL-SI	EP	00	T-DI	EC
	day	nit	d&n	day	nit	dèn	day	nit	dŧn	day	nit	dan	day	nıt	d*n
Percent occurrence	21	21	21	10	8	9	28	18	19	35	37	36	20	21	21
AVG top ht Kft	i		5.5			5.0	İ		5.3			6.4			5.4
AVG thickness Kft			.35			. 25			.39			. 44			.33
AYG trap freq GHz			.70			1.3			.50			.36			.62
AVG lyr grd -N/Kft			55	i		52	ł		57	i		56	l		55
AVG lyr base Kft	1		5.2	l		4.8	i		4.9			6.0			5.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCC	URRENCE	Y	EARL'	Ÿ	J	AH-MI	R	RI	R-J	บท	3	UL-S	EP	0	CT-D	EC
			day	nit	dŧn	day	nıt	dan	day	nit	d&n	day	nit	dan	day	nit	dtn
8 to	18	Feet	9	9	9	10	10	19	15	14	15	7	7	7	5	6	- 6
10 to	20	Feet	4	6	5	5	6	6	5	7	6	4	6	5	3	5	4
20 to	38	Feet	<u> </u>	8	. 7	7	_ 9	8	- 7	_ 9	8	6		?	5	7	6
30 to	40	Feet	8	11	9	10	12	11	8	11	3	7	11	9	7	9	8
40 to	59	Feet	11	14	12	12	14	13	10	13	12	19	15	12	10	14	12
50 to	66	Feet	12	15	13	13	14	14	10	13	12	12	_16	14	13	15	_14
60 to	78	Feet	12	13	12	13	13	13	9	:0	10	11	13	12	13	15	14
70 to	88	Feet	19	10	18	11	10	19	8	8	દ	8	9	9	13	12	13
80 to	98	Feet	6	5	6	_6	4	5.	5	4	4	5	4	5	ą	7	3
99 to	100	řeet	4	3	3	3	2	3	3	2	3	*	3	3	ű	4	<u>5</u>
Ltave	120	Feet	19	7	13	10	4	?	21	8	14	27	9	18	16	6	11
Hean he	ı gh	t Face	71	54	62	59	50	54	69	51	69	84	57	70	72	58	65

GEFERAL METEORCLOGY SUMMARY: PARHHETER YEARLY JAN-HAR APR - JUH OCT-DEC JUL-SEP day nit den day nit dan day nit dên day nit deniday nit den % occur ELASB dcts % occur 2+ EL dcts. 8 3 3 AVG station N 324 309 325 348 313 AVG station -H/Kft 12 18 12 15 11 15 AVG sec used Kts 15 18 18 18 14 14

TREPS REV 2.1 HISTORICAL PROPAGATION COMBITIONS SUMMARY

Specified location: 43 39 N 70 19 W (*) INDICATES INSUFFICIENT BATA Radiozonde source: 72606 43 39 N 70 19 W

Radiosonge station height: 66 Feet

Surface obs source: MS151 45 00 N 65 00 H

PERCENT OCCURRENCE OF ENHANCED SURFACE-IO-SURFACE RADAR/ESM COM RANGES:

PERCENT !	DECURRENCE	UF E	MALIO	CEL	SUKF	HCE-	10-3	UKPR	UE RI	אחעה	ESH	COII	KUN	<u> </u>		
FRE	QUENCY	Y	ERRL	Y	<u>; J</u> (H-HI	R.	AI	PR-J	UH	JI	UL-S	EP	01	CT-DE	EC
L		day	nit	dan	day	nit	dkn	day	nit	d&n	day	nıt	d&n	day	nit.	dt 1
100	MHz	1 1	1	1	0	0	8	1	1	ī	2	2	2	8	1	
1	GHz	10	6	8	2	2	2	13	6	19	18	14	16	5	4	5
3	GHz	13	_ 9	_ 11	2	3	3	17	_ 9	13	23_	_ 18	_21	7	6	7
6	GHz	22	18	20	8	8	8	24	16	28	35	30	33	28	18	19
18	GHz	39	36	37	24	24	24	35	28	31	49	47	48	48	44	46
29	GHz	52	58	51	41	42	42	44	38	41	58	58	58	66	63	65

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	YEARLY day nit dan d		Ji	M-HE	AR	PI	PR-J	אט	Ji	JĽ-SI	P	0	CT-D!	EC
	day	nit	d&n	day	nit	din	day	nit	dån	day	nit	dan	day	nit	1kn
Percent occurrence	8	7	- 8	1	2	2	13	6	10	15	15	15	3	5	4
AYG thickness Kft	ĺ		.26			. 18	ſ		. 25			.32	ĺ		.28
AVG trap freq GHz	ł		1.4			1.9	j		1.5		•	.88	ł		1.5
AVG lyr grd -N/Kft			96			99	1		124	1		88	l		75

ELEVATED DUCT SUMMARY:

CLEANIED DOCT SOURCE															
PARAKETER	Yi	EARL	Α	J	N-M	AR .	AI	R-J	UH _	71	JL-SI	EP _	0	CT-DI	EC
	day	nit	dŁn	day	nit	d&n	day	nit	dan	day	nit	d&n	dav	nit	dan
Percent occurrence	21	20	28	19	9	10	18	18	18	35	37	36	19	17	_13
AYG top ht Kft			5.6	l		4.1	l		6.3	l		6.8	1		5.1
AVG thickness Kft			.29	L		.26	!		.30	l	_	.34			.27
AVG trap freq GHz			.68			.68			.73			.53			.79
AVG lyr grd -N/Kft			63			65	i .		62	ł		60	ŀ		64
AVG lyr base Kft			5.4	L		3.9	L	_	6.1	İ	_	6,5	<u> </u>		5.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCURRENCE	ΥĮ	ARL	1	J	AN-M	AR	A	R-JI	JH	J	JL-SE	P	90	T-DE	Ę
		day	nit	d&n	day	nit	<u>d&n</u>	day	nit	dån	day	nit	d&n	day	ntt	d&n
0 to	10 Feet	34	34	34	31	31	31	48	48	48	38	36	37	19	21	-20
10 to 3	20 Feet	17	19	18	27	27	27	16	18	17	11	12	11	15	17	16
28 to_	38 Feet	14	15	15	17	18	18	10	18	10	16	12	_11	19	28	19
30 to	40 Feet	11	11	11	11	11	11	7	8	7	8	11	9	17	16	16
48 to	50 Feet	7	7	7	6	5	5	4	5	4	7	8	8	12	10	11
59 to	60 Feet	5	5	5	3	3	3	3	3	3	6	6	6	7	7	. ?
60 to	70 Feet	3	_ 3	3	1	1	i	2	2	2	4	4	4	4	4	4
70 to 3	80 Feet	2	1	2	1	9	1	1	1	1	2	2	2	2	2	2
80 to	98 Feet	1	1	1	0	_ 0	0	1	1	1	2	. 1	_ 1	1	1	1
90 to	100 Feet	1	1	1	0	- 6	e	1	1	1	1	1	1	1	1	1
above	100 Feet	6	3	5	2	1	2	8	4	6	11	6	9	4	2	3
Mean he	ight Feet	31	27	29	23	21	22	28	22	25	39	32	36	34	31	33

PARAMETER	ÝĮ	ARL'	Y	Ji	RH-M	RR -	A1	R-J	บห	71	JL-SI	ΕP	00	T-DI	EC
	day	nit	d&n	day	nit	d&n	day	nit	₫&n	day	nıt	dkn	day	nit	dên
% occur EL&SB dcts			1			- 6			1			4			1
% occur 2+ EL dcts			3	ł		1			2	İ		6	l		2
AVG station N			323	1		310			322			342			316
AVG station -N/Kft			13			11			12	l		16			12
AVG sfc wind Kts	16	16	16	28	19	29	14	14	14	12	12	12	18	17	18

(*) INDICATES INSUFFICIENT DATA

Specified location:

41 46 N E7 45 H Radiosonde source: 72534 41 46 N 87 45 H

Radiosonde station height: 617 Feet

Surface obs source: MS116 35 88 H 75 88 H

PEPLENT !	ULLUKKENLE	UP E	инаи	LEU	DUKP	HLE-	10-2	UKEN	LE XI	אמינוד	<u> </u>	<u>'LUN</u>	XAM	7 <u>52:</u>		
FRE	QUENCY	Y	EARL'	Y .	J	RH-HI	AR	RI	PR-JI	JH	71	UL-SI	EP	0	CT-DI	EC
i		day	nit	d&n	day	nit	d&n	day	nit	din	day	rit	dkn	day	nit	dan
100	HHz	1		8	- 6	6	0	1	9	1	1	- 0	0	0	- 0	3
1	GHz	23	7	14	11	4	7	25	8	17	38	9	19	17	c	11
3	GHZ	31	14	23	28	11	15	35	14	24	40	16	28	32	17	21
5	GHZ	64	52	58	57	43	53	66	45	53	69	54	61	70	59	65
18	GHz	82	76	79	79	7▲	77	76	69	73	85	80	82	87	83	85
20	GHz	88	85	86	86	94	85	82	79	81	90	88	89	92	90	91

BURFACE BASED BUCT SUMMARY:

PARAMETER	YE	RRL	7	Ĵ	ห-หค	AR.	AI	R-J	JN	71	UL-SI	EP	0:	CT-D	EC
	day	nit	d&n	day	nit	180	day	nit	d&n	day	nit	dèn	day	nit	din
Percent occurrence	7	9	4	2	6	1	14	8	7	9	0	5	4	0	2
AVG thickness Kft	i		. 16	1		. 12			.21	l		.20	l		.10
AVG trap freq GHz	l		2.4	1		2.5			1.5	l		1.6	l		4.0
AVG lyr grd -H/Kft			104			79			119	L		90	L		129

ELEVATED DUCT SUBBARY:

PARAMETER	YI	ERRL'	7	JI	H-H	R.	ลเ	r-j	บห	J	JL-\$	P	0	CT-DE	C
	day	nıt	din	day	nit	din	day	nit	dan	day	nit	dkn	day	nit	dan
Percent occurrence	36	8	18	18	0	9	26	_ <u> </u>	13	€1	E	31	37	e	19
AVG top ht Kft			3.9	i		3.6	1		3.9	1		4.7	I		3.4
AUG thickness kft		_	.36			. 25			.37	i		.47	1		. 35
RYG trap free GHZ			.5€			1.2			.44			.27			.36
AVG lyr grd -il/Kft			66			66			63	i		63	i i		71
AVG lyr base Kft		_	3.6	L		3.5			3.6	i		4.3	l		3.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT GLCURRE	HCE;	ERRL	Ϋ́	J	AH-M	AR	Al	PR-J	CH	31	UL-S!	EP	00	T-DE	C
	C as	, nir	dan	day	nit	din	day	nit	dån	day	ri t	din	day	nit	din
6 to 18 Fee	. ! ?	9	9	18	18	16	15	14	15	7	7		5	6	6
10 to 20 Fee	ι	6	3	5	6	6	5	7	6	4	6	5	3	5	4
20 to 30 Fee	1 6	5 3	7	7	_9	8	7	9	8	6	8	7	5	?	6
38 to 48 Fee	£ 1 - 8	3 11	9	18	:2	31	3	11	9	7	11	- 4	7	9	تو
40 to 50 Fee	t 11	14	12	12	14	13	18	13	12	12	15	12	ો કદ	14	12
58 to 60 Fee	1 12	15	_ :3	13	14	14	10	13	12	12	٠.	14	13	15	14
68 to 70 Fee	1 12	2 13	-ī:	133	,3	13	9	10	10	11	า เิร	12	13	3.5	77
70 to 80 Fee	t j 16	10	:9	1 ::	٠,3	10	ع	8	ફ	Ŗ	9	9	13	12	(3
80 to 90 Fee		5 5	- 6	6	4	į	3	;	4	. 5	4	5-	و	?	
90 to 100 Fee		3	3	3	- 2	3	3	- 2	?	4	- 3	3	5	- 4	~ 5
above 100 Fee	1 15	,	13	18	4	-	2:		14	27	•	18	16	6	31
Hean neight Fe	et 71	54	62	39	59	54	59	. : :	60	84	5?	- 20	72	Ç4	65

ACHENIC HE - FONDEOR!	SOUTH	•								
PARAMETER	YEARL	Y	JA	H-HAR	APR-JU	Ji.	JUL-S	EF	OCT-I)EJ
	day nit	din	day	nit dan	day niz	ಗಸ್ತಿ ಗ	day ni	Cin	day nit	dun
% occur ELASE dets		3		1		7		2		ź
% occur 2+ EL dets		5	[9		4		13	ĺ	3
AYG station !!		320	1	389		328		338	[331
AVG station -H/Kft		13	l	12		13		14	ĺ	1.3
AVG sfc wind Its	15 15	15	18	18 18	14 14	34	12 12	12	16 16	15

IREPS REV 2.1

Specified location:

46 25 H 84 22 H

(*) INDICATES INSUFFICIENT DATA

Radiosonde source : 72734 46 28 N 84 22 N

Radiosonde station height: 725 Feet Surface obs source: MS116 35 00 H 75 00 4

FREC	UENCY	Y	EARL	r	36	H-M	R	P.F	R-J	Z	7	L-SE	Ρ	S	CT-DI	EC
L		day	nit	dån	day	nit	din	day	nit	din	day	nit	den	day	nit	den
196	MHz	Ð	9	8	9	8	6	0	8	8	1	1		9	Θ	- 0
1	GHz	28	8	14	18	4	7	22	9	16	29	13	21	17	6	11
3	GHz	38	16	23	19	11	15	38	16	23	38	20	29	31	17	24
6	GHZ	63	53	58	57	48	52	57	46	52	68	57	62	49	60	ĒŠ
10	GHz	81	77	79	79	74	76	74	70	72	85	81	83	87	83	85
28	GHz	87	85	86	86	84	85	81	79	80	98	88	85	92	98	91

SURFACE BASED DUCT SUMMARY:

RAPARETER		ARL'			AN-M			PR-J			UL-S			כד-סו	
	day	nit	dkn	day	niţ	d&n	day	nit	d&n	day	nit	ゴねの	day	nit	Jin
Persent occurrence	3	3	3	1	9	1	4	3	4	5	7	- 6	2	1	2
AVG thickness Kft			. 23	ŀ		-13	l		. 25	j		.3₹	}		. 18
AVG tree GHz			2.2			3.5	[1.6	(.77	i		2.9
AVG lyr grd -NZKft			116	L		149	<u> </u>		123	L		68	L		133

FI FURTER BUCT SUMMARY:

PARAMETER	Y	EARL'	Y	31	RN-K	AR	B)	PR-J	NK	76	JL-S	5	0	CT-II	EC
	day	nit	GŁn	day	nit	din	day	nit	d&n	day	nit	asb.	day	nit	džn
Percent occurrence	15	14	14	6	6	6	11	11	11	31	23	27	13	14	24
AVG top ht Kft	í		4.8	l		4.8	1		5.6	l		5.4	ł		4.:
AVG thickness Kft	Ĺ		.20	i		.22	<u> </u>		-26	i		.29	<u> </u>		. 25
AVG trap freq GHz			1.0	1		1.5			1.0			-44			1.2
AVG lyr grd -N/Kft	l		58	ļ		68	l		5?	i		58	}		58
AVG lyr base Kft	<u> </u>		4.6	ĺ		3.8	ľ		5.4	1		5, 1	1		3.9

EUGDODSTION BUCT DYCTOCHOM IN DESCRIP DECUDENCE.

EAULDENITOR DOCT HT		(611)	111	CRUC	21 00	CCK	KENCE								
PERCENT OCCURRENCE	Y	irrl'	1	3	8'1-K	1k	AF	R-S	'N	J	JL-\$1	Ė	C	T-DE	C
	day	nit	dŧn	day	nit	dkn	GAY	nit	ರಸಿಣ	SLY	nit	dan	day	กาะ	den
0 to 10 Feet	9	9	9	18	18	16	15	14	15	7	7	7	5	\$	_ £
18 to 20 Feet	4	6	5	5	6	6	5	7	6	4	6	3	3	5	4
28 to 38 Fee:	6	. 8	7	7	9	8	7	9	8	6	. 8	•	5	7	6
30 to 40 Feet	8	11	9	70	12	11	8	11	9	7	11	9	7	9	8
40 to 50 Feet	11	14	12	12	24	13	19	13	12	18	15	12	10	:4	12
50 10 68 Fee"	12	15	13	13	14	54	10	13	. 2	12	16	14	12	15	14
60 to 78 Feet	12	.3	12	13	13	13	3	16	16	-11	:3	12	10	15	14
70 to 88 Feet	10	13	iv	11	18	18	8	3	8	8	9	9	13	13	13
48 to 98 Feet	- 5	5	_ 6	6		_5	5	4	4	5	4	5	9	7	8
98 to 109 Feet	4	3	3	3	2	3	3	3	3	4	3	3	5	4	- 5
above 188 Feet	19	7	13	44	4	7	21	Ł	16	27	٥	18	16	6	11
Hean beight feet	71	74	65	59	_50	54	69	31	68	84	57	78	72	58	65

PALAMETER	YEN	श्रम	48	H-HA	R	7.7	R-JI	JN	JU	L-SE	P	OC	î-DE	í J
i	day n	it din	day	nit	din	day	nit	din	day	nit	den	day	nit	den
% cacur EL&&B dots		ê			8			1			1			0
% occur 2+ EL dets		2			8			1			3	İ		3
RVG station N		313	ĺ		362			311			327			303
AVG station -H/Kft	,	12			11			12			14			11
AVG sfc uind Kts	15	15 15	19	18	18	14	14	_14	12	12	12	15	16	16

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 47 27 H 122 18 W (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 72793 47 27 H 122 18 H

Radiosonde station height: 427 Feet Surface obs source: HS157 45 88 N 125 88 N

DEDIENT OCCUDENCE DE ENHANCED SUDERCE-TO-SUEFRCE PRÉRE ESY/COM PRUCES

PEPLENT 0	CCUPRENCE ()F EI	кнан	CED S	SURF	ACE-	<u> 19-81</u>	<u>JKFA(</u>	E R	adap	ESM	COM	BUA	<u>SES:</u>		
FREQ	UENCY	Y	EARL	7	3	ลัห-หล	AR	At	R-J	JH.	Jı	JL-SI	ĘΡ	0	CT-D	EC
1		day	nit	Jan	day	nit	d&n	day	nit	d&n	day	nit	ರಹಿಗ	day	nit	dün
100	KHZ	*	+	* *	*	+	*	¥	*	*	*	*	*	*	*	4
1	GHz	*	*	+	*	*	*	#	÷	*	*	ż	*	*	*	±
	GHE	٨	*	*	*	*	*	*	*	+	•	÷	*	÷	+	*!
6	GH2	*	*	*	3	*	*	*	+	*	÷	*	*	*	*	*
10	GH2	*	+	*	-	*	#	*	*	ŧ	*	*		*	4	±
20	GH#	+	*			*	+		*	a		•	ŧ	*	•	±

SUPFACE BASED BUCT SUMMARY:

OAPAHETER

YEARLY

JAN-HAR

APR-JUN

JUL-SEP

OCT-DEC

day nit dan day nit da

AVG lyr grd -N/Kft

AVG trap freq GHz

ELEVATED DUCT SUMMAI	??;														
PARAMETER	Y	EPPL'	<u> </u>	J	AK-H	US.	ล	アスープ	CH	J	UL-SI	EP.	Ö	CT-D	EC
	day	rit	d\$n	J 90	nit	dŁn	day	nit	dan	day	กรร	dtn	day	ni <u>t</u>	d&n
Percint occurrence	8	29	:9	9	10	5	33	48	37	9	35	18	8	29	15
AVG top ht Kft			5.3	1		ت	İ		5.9	ŀ		5.?	1		*
AVG thickness Kft			.29	j		.24	<u>; </u>		.22	i		.37			. 32
AVG trap freq GHz		- —	.89	i		1-2	-		1.1	I -	-	.66			.58
AVI IV- grd -N-Kft	l		58	ì		1	ĺ		58	İ		58	!		*
AVG lyr base Kfr	L		5.1	<u>L </u>		4.5	<u> </u>		3.7	<u> </u>		5.1	L		5.3

EMAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	ecc	URRENCE	Y	EA&L1	?	3	a::-#:	ar	A:	PR - 31	UN	31	ひレーシ	EP) 01	CT-D	EC
			day	กาะ	dan	day	7+3 E	GEn			dkn	day	4, £	dtn	day	nit	dsn
O to	:0	Fiet	27	26	26	25	26	25	2.6	24	25	33	3.	32	23	23	23
10 to	29	Feet	18	5.5	20	22	26	24	18	23	21	15	18	16	:8	22	20
28 10	30	Feet	18	t2	_ 20	26	53	_22	16	22	19	14	:9	17	28	23	22
30 to	48	Feet	13	14	14	14	:4	14	13	15	14	19	13	1:	15	15	75
40 to	50	Friet	7	6	6	6	5	6	6	6	6	6	6	6	8	7	8
50 10	60	Feet	4	3	3	3	2	3	4	2	3			3	5	3	. 4
60 to	70	Feet	2	_{ -	2	2	1		3	1	2	-	1	2	2	1	2
70 to	دم	Feet	:	1	1	1	1	1	1	1	3	2	1	1	1	1	1
84 10	90	Feet	1	1_	1	1_1	c	0	1	1	1	1	1		1 1	1	1
98 to	180	Feut	1	0		1	8	9	1	9	:	1	1	1	1	9	- ē
abova	100	F€€t	9	4	6	5	3	4	12	4	8	13	4	9	?	3	5
Mean he	e i gla	t Feet	36	27	ુ ૦૨	_ 29	25	27	41	28	35	48	29	35	34	27	39

YERRLY	Jan-Mar	HPR-JUH	JUL-SEP	OCT-SEC
day ni dan	day nit din	day sit dan	day niz den	day nit din
C	9	8	0	9
1	8	1	2	9
134	193	163	330	ð
4.9	3.6	4.6	12	.29
15 15 15	17 15 17	14 14 14	13 12 12	17 16 16
	day ni* d£n C 1 134	day n1" dan day nit dan 0 9 1 0 134 193	day ni* dan day nit day day nit dan 0	day ni* day day nit dtn day nit day

IPEPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 48 24 N 124 42 W (*) INDICATES INSUFFICIENT DATA

Radiosande scurce : 72798 48 20 H 124 42 H

Radiosonde station height: 85 Feet

Surface obs source: #8157 45 88 H 125 89 N

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESH/CON RANGES:

PERCENT OCCURREN	UE U		MIII (M	<u></u>	JUKE	1106	10-3	UKT 11		DUL.	<u> </u>	COL	44,000	363.		
FREQUENCY		Y	EARL'	Υ	J	คห−หเ	R	71	7 <u>7</u> -99	<u> </u>	31	JL-SI	P	0	CT-DI	EC.
i	1	day	nit	din	day	nit	dån	day	nit	dtn	day	nit	din	day	nit	dtn
100 MHz		2	0	1	*	*	4	3	6	2	2	8	1		-	*
i Gbz	- 1	28	6	13		#	¥	22	3	13	ខេ	3	12	*	+	•
3 5Hz		25	_ 8	16		*	. *	27	6	17	23	9	16	*	*	*
S GHz	•	34	12	23	1	*		36	18	23	32	14	23		+	 -
18 GHz	- 1	49	32	41		4	•	52	31	42	47	33	40	÷	÷	*
28 GHz	- 1	63	33	58		*	*	66	53	59	60	52	56	*	*	ŧ

SURFACE BASED BUCT SUMMARY:

SURFRIE BUSED BOLT S	304141	717. 6 .													
PARAMETER		EARL	•		<u> </u>			R-J			UL-SI			CT-D	
1	day	nit	rikn	day	nit	d&n	day	nit	dŁn	Cay	nil	dån	day	nit	din
Percent occurrence	21	3	12	•	*	•	22	5	12	28	3	12	-	*	*
RYG thickness Kf.			.28	1		•	l		.35			.21			+
AVG trap freq GHz			2.2	1		•	•		.92			3,6	•		4
AVG Tur and -H/Kft			116	l		*	i		105			127			ą.

LEVATED DUCT SUMMARY:

PARAMETER	YEARLY	JAN-MAR	RPR-JUH	JUL-SEP	GCT-BEC
	day nit dan	day nit dan	day nit dan	day nit dan	day nit dan
Percent occurrence	12 24 18	* * *	8 21 15	16 27 22	2 2 4
AVG top nt Kft	2.7		2.6	2.8	*
AVG thickness Kft	.26	•	,25	.28	
AVG trap freq GHz	1.4	•	1.9	.85	•
RVG lyr grd -N/Kft	58		58	57	Ŧ
AVG lyr base Kft	2.5		2.4	_ 2.6	

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

A LIL AL	(n)	IUM	POS 1 UT:	3 · U ·	tnn .	TU L	CRUE	n 1 C	LLUKI	KENÇI	<u> </u>							
PERC	EHT	OCC	URRENCE	Y	ARL'	Y	J	AH-M	AR	RI	7R-J	JH 🗔	Ji	JL-5	P	00	T-DE	EC
				day	nit	d&n	day	nit	dkn	day	nit	ป &ก	dav	nit	din	day	nit	d&n
9	10	10	Feet	27	26	26	26	26	25	26	24	25	33	31	32	23	23	23
10	10	28	Feet	18	22	20	22	26	24	18	23	5:	15	18	16	18	22	20
59	10	38	Feet	18	22	20	20	23	22	16	22	19	14	19	17	20	23	22
39	10	48	Feet	13	14	14	14	14	14	13	15	14	10	13	11	15	15	15
48	10	58	Fagt	7	6	6	6	5	6	6	6	6	6	- 5	6	8	7	ફ
58	to	68	Feet	4	3	_ 3	3	2	3	4	2	3	4	3	3	5	3	4
60	10	78	Feet	2	1	2	2	1	1	2	:	2	2	1	2	2	1	— ≨
78	to	88	Feet	1	1	1	1	1	1	1	1	1	2	1	3	1	1	1
88	10	98	Feet	:	1	1	1	8	8	1	1	1	1	:	1	1	1	1
99	10	190	Feet	!	-3	1	1	0	8	1	0	1	1	1	1	1	0	0
850	ove	186	Feet	9	4	6	5	3	4	12	4	8	13	6	9	1	3	5
			Feet	36	27	32	29	25	27	41	28	35	40	29	35	34	27	38

PARAMETER	YERPL	•		H-MAR	i		R-Ji			£-58			7-28	
[day nit	din	day	nit d	ån	day	<u>nit</u>	25,r.	day	nit	dzn	day	nit	dtn
रे occur ELESB dcts		8			0			9			1	}		8
% occur 2+ El. dcts		1	i		0	1		1			2	l		ช
AVE statton N		333	i		•			329			337	1		•
AVG station -N/Kft		16	l		*	l		15			18	ļ		*
AVG sic wind Kts	15 13	15	17	16	17	14_	14	_14	_13	12	12	17	16	16

(*) INDICATES INSUFFICIENT DATA Specified location: 45 80 H 135 60 H Radiosonde source :-74109 58 48 N 127 22 H

Radiosonde station height: 75 Fees Surface obs source: HS153 43 00 N 135 00 H

PERCENT OCCURPENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESH/COM RANGES:

FREQUENCY	YI	EARL'	Y	Jí	iH-H	1R	95	R-JU	IN .	JI	JL-SI	P	01	T-DE	ĒC
i	day	nit	din	day	nit	dtu	day	nit	den	day	nit	d£n	day	nit	324
100 HHz	9	9	0	8	e	8	7	8	9	1	8	9	Ø	8	0
1 GHz	9	3	6	4	1	3	12.	4	8	16	5	10	5	2	3
3 CHz	11	4	7	5	1	3	15	5	10	18	7	13	6	2	4
5 GHz	29	- 3	15	10	4		22	9	15	29	14	22	17	10	14
16 GHz	43	37	40	34	23	31	42	32	37	49	42	45	48	45	46
20 GHz	61	_60	68	55	52	5+	58	55	56	64	64	64	66	67	66

SURFACE RASED DUCT SUMMARY:

PRRAMETER	YEARL	Υ	Ji	AH-HA	R.	AF	R-JI	HU	J.	JL-SI	ΕP	Ö	CT-D	EC
	day nit	dån	day	nit	dan	day	nit	den	day	nit	1Ln	day	nit	dtn
Percent occurrence	4 2	3	3	1	2	5	2	4	5	2	4	2	1	2
AYG thickness Kft		.26	ł		. 26			.31			.29	ļ		.28
AVG trap freq SHE		1.3	ļ		1.3	•		1.0	ŀ		.91	ļ		1.8
AVG lor grd -N/Kft		86	l		89			89			95			71

ELEVATED DUCT SUMMARY:

PARAMETER	Y	FARL	Υ	J	9H-M	AR	នា	PR-J	HU	31	JL-S	EP	0	CT-D	EC
	day	nit	der:	Jay	nit	din	day	nit	dir	day	nit	din	day	nis	dan
Percent occurrence	7	13	16	3	3	4	7	11	8	13	27	28	5	8	7
AVG top ht Kft	l		4.8	ŀ		3.7	l		4.9	t		4.4	I		6.9
AVG thickness Kft	:		.27	ļ		.23			.26			.31			.27
AVG trap freq GHz			.87			1.0			.91			.63			1.0
AVG lyp and -N/kft	l		59	l		59	Į		57	l		56	1		64
AVG lyr base Kft			4.6	l		3.6	}		4.7			4.2	j		5.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCEN	T 0:	CUPRENCE	Y!	ARL	r	Ji	Ar-M	18	ß۱	R-J	J: 1	J.	JL-51	P	O	7-08	EC
<u> </u>			day	nıc	dan	day	n11		day	nit	dàr.	day	nit	din	day	nit	din
0 :	0 10	Feet	25	21	23	27	25	26	27	23	25	25	19	22	28	17	18
18 t	0 26	Feet	16	20	18	19	22	21	17	23	20	į 13	18	16	15	16	15
20 1	o_39	Feet	18	23	21	22	25	23	17	23	28	15	22	19	18	22	_ 28
30 €	0 41	Feet	15	19	17	16	18	Į,	14	18	:6	13	18	15	19	- 22	2.3
40 t	o 5	Feet	9	8	8	7	G	6	7	6	6	8	16	9	12	12	12
_ 50 t	o 60	Feet	5	4	4	<u> </u>	2	_ 2	4	2	_ 3	5	5	5	7	6	7_
60 t	0 70) Feet	2	1	2	1	1	1	2	1	2	3	2	_ 3	3	2	2
70 t	0 86	Feet	1	1	1	1	9	9	1	1	1	, 2	1	2	1	1	1
80 t	0 91	Feet	1	9	. 1	_0	9		1_1	1	1	_1	1	. 1	1	- 8	Ü
90 t	0 10	8 Feet	1	8	ð	9	8	8	ī	8	1	1	1	1	0	8	9
±30v	e 10	30 Feet	8	2	5	3	1	2	10	3	6	13	4	5	4	1	3
Hean	heid	ht Feet	36	27	32	27	22	24	37	26	32	45	31	38	34	29	31

PARAMETER	Y	EARL'	Y	Ji	H-H	R.	88	R-JI	Ji:	JU	1L-S	EF	0:	CT-D!	FC T
	day	nít	ರಕ್ಕ	day	nit	din	day	nit	สรก	day	nit	dan	day	nit	dan
% occur EL4SB dcts			Θ			8			8			1			6
% occur 2+ EL dcts			:			0			Ð,			3	ļ		9
AVG station N			324			317			323			334	1		335
RYG station -H/Kft			13			12			13			14	1		12
AVG afe wird Kis	17	17	17	29	19	28	16	15	:5	14	13	14	20	29	19

HISTORICAL PROPAGATION CONDITIONS SUMMARY

(*) INDICATES INSUFFICIENT DATA

SREPS REV 2.1

Specified location:

45 00 H 145 60 H

Radiosonde source: 4YP

50 00 H 145 88 K

39 Feet Radiosonde station height:

Surface obs source: MSI59 45 00 N 145 00 H

ACROSTIT ACCHARANCE OF ENGAGER CHREAGE TO CHREAGE DARRO FOR COM DONICE.

PERLEG	1 :	IL CUKKENCE	UP E	nnna	CER:	SURF	nte-	10-2	UKEN	141	TUNE	ESU	<u> </u>	KHN	3 <u>23:</u>		
F	REC	UENCY	7	EARL'	Y	J	6H-HI	AR .	ลเ	PR-JI	JH		UL-S	EP	0	CT-DI	EC
Ĺ			day	nit	din	day	nit	dln	day	nit	d&n	day	nit	dta	day	nit	din
1	98	nuz	8	8	0	9	- 6	- 0	- 6	- 0	Ð	9	0	v	0	- 8	9
ı	1	GHz	6	3	4	2	1	5	9	3	€	11	4	7	4	2	3
i	3	GHZ	8	3	5	3	2	2	11	3	7	12	6	9	5	2	3
	6	GHZ	15	8	11	7	4	6	16	6	11	21	12	17	14	9	12
1	10	GHZ	36	31	34	29	24	27	34	25	36	48	35	37	43	49	41
1	28	GHz	54	53	54	49	49	49	58	47	48	54	54	54	63	61	€ 2

CHOCASE PACED BUILT SHUMARY.

PARAMETER	Y	ERRL	Y	J	AN-M	AR	A	PR-J	UH	3	UL-SI	P	Û	C T - D	EC
	day	nit	din	day	rei t	dan	day	nit	d&n	day	nit	dan	day	nit	ರಕ್ಕಿ
Percent occurrence	2	2	2	2	3	3	4	1	3	1	5	2	1	2	2
RYG thickness Kft	l .		.21	Į		.16	į .		. 13	ŀ		.39	i		. 14
RVG trap freq GHz			2.4	1		3.6	•		3.6			.66			2.4
AVG lyr grd -N/Kft			15?	İ		145	!		162	L		93	L		227

ELEVATED DUCT SUNNERY:

PRRAMETER	YI	ERRL'	4	Ji	H-HE	RR	8.6	R-J	JH	J	JL-SI	P	Ö	CT-DI	Ēί
	day	nit	din	day	nit	din	day	nit	din	day	nit	ರ೭ನ	day	nit	de
Percent occurrence	9	18	10	18	10	18	5	7	6	13	16	15	8	8	8
AVS top ht Kft	Ì		4.0	1		3.4	l		4.5	1		*	l		4.1
AVG thickness Kft			.38			.27	l		.26			.36	L_		.29
AVG trap freq GHz			.34			.80			1.2			.51			.81
AVG lyr grd -N/Kft			€3	•		63	i		63	ŀ		*	1		62
AVG for base Kft			3.9			3.2	j		4.3	[4.1			3.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

CANLOND	U	DOCT HIE	<u> </u>				<u> </u>	COR									
PERCENT	030	PRENCE	76	ARL	r	J	3H-31	AR	AI	PR-J	JN	Ji	JL-\$1	EP	00	T-D9	C
			dau	nit	dtn	day	nit	din	day	nit	dtn	day	กรร	dtn	day	การ	din
9 30	10	Feet	29	26	27	29	27	28	33	29	31	31	27	29	22	22	_ ; ;
10 to	28	Feet	18	21	19	22	25	23	19	25	22	15	18	17	15	17	16
20 to	38	Fest	18	22	20	28	25	22	16	22	19	15	28	17	28	22	21
38 to	₹8	Feet	15	17	16	16	16	16	13	15	14	12	15	13	19	28	19
48 10	50	Feet	7	7	7	6	5	5	5	4	5	8	8	8	10	16	:0
50 to	60	Foet	_ 4	3	4	_2	1	2	3	2	2	_ 5	_4	_4	6	5	5
68 19	71	Feet	2	1	1	1	- 8	1	1	1	7	2	2	Ž	3	2	- 4
78 to	દ૩	Feet	1	1	1	1	0	8	2	1	1	2	1	1	1	1	1
SØ to	98	Feet	. 0	0	Ø	- 6	8	e	1	8	_0	_1	0	1	_ 0	. 8	6
28 tc	108	Feet	1	8	8	ន	8	6	1	8	Ü	1	1	1	0	9	9
abe∪€	:58	Feet	€	2	4	2	1	1	8	2	5	10	3	7	3	1	2
Hean ho	righ	t Feet	31	25	28	24	21	22	32	23	27	37	28	33	31	27	29

CEMEBRI METERPOLOGY SUMMARY:

PARAMETER	Ϋ́E	ARL	Y	Ji	AH-K	AR	RF	R-J	UH	Jı	JL-SI	EP	Ot	, ī - Di	Eί
	day	nit	dŁn	day	nit	din	day	ni t	dŁn	day	nit	dan	day	111	ctn
≈ occur ELESB dcts			8	I —		6			9			9			Ö
% occur 2+ EL dcts			1	i		9	ı		0	,		2	l		0
RYG station N			323	l		315	ĺ		323			334			318
AVG station -H/Kft			13	l		12			13			15	ŀ		13
AVG sfc wind kts	18	19	:8	21	21	21	17	16	16	14	14	14	21	20	21

Specified location:

Radiosonde source : 4YP

(*) INDICATES INSUFFICIENT DATA

Radiosonde station height: 39 Feet Surface obs source: MS168 45 80 H 155 60 H

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE PADAR/ESH/COM RANGES:

45 00 H 155 00 H 50 88 N 145 60 K

FREQUENC	Y YE	ARLY		JF	in-rif	R	អ	アーブ	ž	31	JL-SE	P	5	T-DE	C
l	day	nit c	din	day	nit	den	day	nit	din	day	nit	din	day	nit	din
100 MHz	8	- e	0	- 6	. 0	9	Ð	0	0	Ø	3	9	8	8	в
1 GHz	6	2	4	3	1	2	8	2	5	9	4	6	3	1	2
3 GHz	7	3	5	3	2	3	10	3	7	11	_5	8	4	2	3
6 GHz	13	7	10	?	4	5	15	6	11	17	10	14	13	9	-, _i -
10 GHz	33	28	31	27	22	25	31	23	27	33	31	32	41	38	39
20 GHz	58	50	50	48	46	47	46	43	45	46	49	47	61	61	61

SUPFACE BASED DUCT SUMMARY: PARAMETER YERRLY JAN-MAR APR-JUN JUL-SEP OCT-DEC day nit dan day_nit_d&n day nit din day nit din day nit den Percent occurrence 2 3 .2: . 16 .13 .39 AVG thickness Kft . 14 .66 AVG trap freq GHz 2.4 3.6 3.8 2.4 157 162 RVG lyr grd -H/Kft 145 93 227

ELEVATED DUCT SUMMARY:

PARAMETER	1	EARL	Y	J	คห-หเ	1R	R	R-J	UN.	3	UL-SI	ĘΡ	C	ÇT-BI	EC
	day	nit	dŁn	day	nit	din	day	nit	dtn	day	nit	din	day	nit	din
Percent occurrence	9	10	10	10	18	19	5	7	6	13	16	15	8	8	8
AVG top ht Kft	1		4.0	i		3.4	l		4.5	ŀ		+	ŀ		4.1
AVG thickness Kft			.38	_		.27			.26			.36			.29
AVG trap freq GHz			.84			.88			1.2			.51			.81
AVG lyr grd -N/Kft			63			63	ŀ		63			*	1		62
AVG lyr base Kft			3.9			3.2			4.3			4.1	L		3.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCURPENCE	YI	ERRL	¥	J 1	AN-M	ar	A:	PR-JI	jн	J	UL-SI	EP	0:	CT-DE	EC
		dav	nit	dkn	dav	nit	din	day	nit	d\$n	day	nit	din	day	nit	- 32
Ø to	10 Feet	32	29	38	31	29	39	36	33	34	38	33	35	23	22	22
10 to	28 Feet	19	22	20	22	26	24	28	25	22	16	19	17	16	17	17
20 10	30_ Feet	18	22	28	21	24	22	16	21	18	13	18	16	21	23	22
39 tc	40 Feet	13	15	14	15	14	14	11	13	12	18	13	12	18	19	19
40 to	50 Feet	7	6	7	6	5	5	5	4	4	6	7	7	10	16	10
50 to	60 Feet	3	3	3	2	2	2	3	2	_ 2	4	4	4	5	5	5
60 to	70 Fest	2		ı	1	9	0	1	1	1	2	1	2	2	1	2
70 to	90 Feet	1	9	1	8	8	8	1	1	1	1.	1	1	1	0	:
30 10	98 Feet	_0	. 0	8	8	. 8	6	1	٤	1	1	0	1	į e	9	Θ
90 to	100 Feet	9	9	0	e	8	8	1	9	8	1	8	1	0	Ð	5
above	100 Feet	5	1	3:	2	1	1	7	2	4	8	3	5	3	1	2
Hean he	right Feet	28	23	25	23	19	21	28	22	25	31	25	28	29	26	28

PARAMETER	Ÿ	ERRL'	Y	Jf	3H-H	AR	AF	R-J	ИU	JL	JS	EP	00	T-D	EC
	day	nit	d&n	day	nit	din	day	nit	den	da;	***	ತ ೬ ೧	da	nit	dşn
% occur EL&SB dcts			9			6			0			6			0
% occur 2+ EL dcts			1			0			0			2	ĺ		0
RVG station N			323	1		315	ĺ		323			334	i		318
AVG station -N/Kft			13	i		12			13			15	ì		13
AVG sfc uind Kts	19	18	18	22	21	21	17	16	17	15	14	15	21	21	٠,

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

AND THE PROPERTY OF THE PROPER

Specified location: 45 90 N 165 00 N (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 79316 55 12 N 162 43 H

Radiosonde station height: 98 Feet

Surface obs source: HS161 45 80 N 165 00 H

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR-FSM/COM RANGES:

CARCILL DOCOLINGIAL				••••			<u> </u>					*******			
FREQUENCY	Y	ENRL	Υ	J	8H-7:	R	A!	PR-J	JH	Ji	JL-SI	EP	0:	CT-DE	<u>.c</u>
i	day	nit	dan	day	nit	din	day	nit	din	day	nit	đ&n	day	nit	din
100 MHz	. 6	8	8	8	. 6	9	0	- 6	9	0	8	ê	. 8	9	3
1 GHz	6	2	4	4	1	2	8	3	5	7	3	5	5	2	3
3 GHz	8_1	2	5	5	1_	_3	10	_ 3	6	9	4	7	7	2	4
6 GHz	14	6	18	18	3	7	14	5	9	16		12	17	8	12
10 GHz	34	27	39	31	24	27	30	19	24	30	25	28	46	39	42
20 GHz	51	48	49	52	49	58	46	39	42	42	41	42	64	63	64

SUPPORT ROSED BUILT SURMORY:

SORLHOE BUSED DOCL .	30-1116K 1 .				
PARAMETER	YEARLY	JAN-HAR	APR-JUN	JUL-SEF	OCT-DEC
	day nit da	n day nit dên	day nit dan	day nit dan	day nit dan
Percent occurrence	4 2	3 4 1 3	5 2 4	3 3 3	4 2 3
AVG thickness Kft	.1	7 .14	.16	. 16	.29
AVG trap freq GHz	2.	2.4	2.5	2.1	2.5
AVC lun grd -H/Kft	10	196	88	118	121

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL	Υ	J	RH-H	RR	A	PR-JI	JH.	30	UL-S	EP	01	CT-DI	EC
	Cay	m.	đěn	day	nit	din	day	nit	den	day	กเน	dån	day	nit	din
Percent occurrence	7	12	10	5	7	6	4	10	7	11	22	17	8	18	9
AVG top ht Kft			3.7	ŀ		2.9	Į.		3.6			4.4	Į .		3.9
AVG thickness Kft	l		.25	L		.25	Ĺ		.20	_		. 32	Ĺ		.22
AYG trap freq GHz			1.2			1.1			1.8			. E4			1.3
AVG Tyr grd -HYKEE			54	į .		58			54	ĺ		66	1		68
AVG lor tase Kit			3.5	i		2.7			3.4	l		4.1			3.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURDENCE:

PERCENT O	CCURRENCE	Ŷĺ	ARLY	7	Ji	11-P	34	R	oğ-Ji	JH	71	UL-SI	EΡ	e	CT-DI	EC
		day	nit	din	1.20	mit.	den	430	-716	720	day	nit	d&n	day	nit	din
8 10 1	8 Feet	32	30	31	27	25	25	37	35	36	44	40	42	21	19	20
10 to 2	G Feet	19	23	21	23	27	25	2:	27	24	15	20	18	16	19	18
28 to 3	0 Feet	17	<u>ź1</u>	19	21	25	23	17	2£	14	:2	16	14	19	24	22
30 to 4	Q Feet	13	15	14	15	16	15	111	11	21	9	31	18	19	21	56
48 to 5	9 Feet	7	6	6	6	5	6	4	3	4	6	5	6	11	18	18
58 10 6	8 Feet	3	3	3	3	2	2	2	1	2	3		3	6	4	5_
69 to 7	U Fess	2	1		1	B	1	1	3	1	2	2	1	2	1	3
70 to 8	G Feet	1	8	3	1	ค	8	1	3	3	1	8	1	1	1	1
80 to 9	9 Feet	3_	0	8	8	9	8	1_1	8	8	_ 1	6	1	1	Θ	. 8
96 to 1	80 Feet	1	9	8	8	e	9	0	8	9		0	8	1	6	Ü
above 1	99 Feet	5	1	3	2	1	2	6	1	4	6	2	4	3	1	2
dean her	ght Feet	28	33	25	25	21	23	26	29	23	27	21	24	31	27	29

PARAMETER	YERRLY	JAK-MAR	RPK-JUK	JUL-SEP	OCT-BEL
	sey nit den	day nit din	day nit dan	day nit gan	day nis dan
% occur ELtar dets	e	6	0	0	8
% occur 2+ EL dets	e	e e	8	2	6
AVG station H	316	311	316	325	311
PVG station -N/Kft	:2	12	12	13	12
AVG sfc uind kis	19 18 19	22 21 21	17 17 17	15 15 15	22 21 21

(*) INDICATES INSUFFICIENT DATA

Specified location:

45 80 N 173 88 H

Radiosonde source : 70454 51 52 H 176 39 H

Radiosonde station height: 13 Feet

Surface obs source: MS162 45 00 N 175 06 W

DEPCHAT ACCUPPENCE OF ENHANCED SUPERCE-TO-SUPERCE PADAP/FSM/COM PANCES:

PERCENT OCTORREDCE O	JP E	H-INN:	LEN :	SUFFI	<u> </u>	10-30	JKFM	LE **	אחעו	, E 2 U	, COU	Knn	<u>653.</u>		
FREQUENCY	Y	ERPL'	ľ	JI	AN-MS	R	RI	PR-JU	אנ	31	JL-SE	P	01	CT-DE	EC
	day	nit	dŧn	day	niz	dên	day	nit	dtn	day	nit	dkn	day	nit	d&n
130 MHz	0	8	8	8	9	9	8	0	0	0	8	0	0	8	0
! GHz	5	2	3	4	2	3	6	2	4	7	2	4	4	2	3
3 GH≳	6	2	4	4	2	3	-7-	3	4	8	2	5	6	2	4
6 GHz	12	6	9	9	5	7	1:	4	7	14	- 6	10	16	18	13
10 GHz	33	28	30	33	31	32	26	18	22	26	23	25	46	42	44
28 GHz	50	49	50	56	56	56	41	38	39	39	38	39	66	65	66

SURFACE BASED DUCT SUMMARY:

PARAMETER	YE	RRLY	7	J	AN-M	1R	Ai	R-JI	JN	J	JL-SI	EP	01	CT-DI	EC
	day	nit	d&n	day	nit	dŧn	day	nit	đ&n	day	nit	d&n	day	nit	dŧn
Percent occurrence	1	1	1	1	1	1	e	0	9	1	6	1	1	1	1
AVG thickness Kft			.17	l		.13	i		.12	l		.22	l		. 28
RVG trap freq GHz			2.4	1		2.5			4.4	ŀ		1.5	l		1.3
AVG lyr grd -N/kft			198	L		198			189	L		207	i		205

FLEVATER BUCT SURBARY:

PARAMETER	Y	EARL'	7	J	H-H	18	AI	PR- J	บหั	Jŧ	JL-SI	EP	O	CT-DI	EC
	day	nit	din	day	nit	d&n	day	กาเ	din	day	การ	din	day	nit	d&n
Percent occurrence	13	15	14	10	8	9	9	12	71	17	2?	22	14	11	13
AVG top ht Kft	ŀ		4.6	l		4.1	1		4.2			5.1	ł		4.8
AVG thickness Kft			.26	L		.27	L		. 25	L		.31	l		.24
AVG trap freq GHz			.86			.77			1.2			.55			.89
AVG lyr grd -N/Kft			68			54			58	1		61	•		59
AVG lyr base Kft	<u> </u>		4.4			4.8	L		4.0	L		4.9	l		4.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCURRENCE	Y	ARL	ķ	Ji	AH-HI	AR .	Al	ヤマーブリ	!N		JL-SE	P	G	7-21	C
<u> </u>		VEC	nit	dŁn	day	nit	d&n	day	nit	d&n	day	nit	dan	day	nit	dùn
0 to	10 Feet	31	28	29	22	19	21	38	34	36	45	35	42	18	17	18
10 to	28 Feet	19	23	21	22	25	24	21	27	24	16	20	18	15	17	16
29 to	30 Feet	18	21	20	23	25	24	15	20	18	12	16	14	2:	24	22
30 to	40 Feet	13	16	15	16	19	18	11	11	11	8	11	18	19	22	23
40 10	50 Feet	7	?	7	8	7	7	4	3	4	5	5	5	12	1:	11
50 10	60 Feet	4	3	3	3	2	3	2	1	1	3	. 3	3	- 6	5	6
60 10	70 Feet	1	1	1	ī	9	1	1	0	1	2	ī	1	2	2	2
70 to	80 Feet	1	в	1	1	8	8	1	•	1	1	8	1	1	1	1
80 10	98 Feet	Θ	9	8	ម	6	3	1_1	8	6	1	છ	0	1	8	Û
90 to	100 Feet	8	9	9	e	Ü	0	8	- 9	9	c	- 6	9	7	9	છ
above	169 Feet	5	ī	3	3	1	2	6	2	3	6	2	4	4	1	2
Hean he	ignt Feet	28	23	25	27	24	25	26	19	22	26	21	23	33	28	30

PARAMETER	YE	ARL	r	Ji	1N~M	AR .	AF	JL-4	M	Ju	IL-SE	P	00	T-DE	EC
	day	nit	d&n	day	การ	dan	day	nit	ರಕಿನ	Gay	nit	din	day	7.1 t	dt-
1% occur EL&SB dcts	[3			8			9			9	[C
% occur 2+ EL dcts	1		1	i		8			9			2	!		1
RVG station H			313	I		367	l		314	l		323			339
AVG statton -H/Kft	i		11	i		10			11			12			11
AVE SEC WIND FES	19	19	19	22	22	22	17	17	37	15	15	15	22	21	22

Specified location:

45 99 N 175 98 E

(*) INDICATES INSUFFICIENT DATA

Radiosonde source : 78414 52 43 N 174 86 E Radiosonde station height:

95 Feet

Surface obs source: HS163 45 00 N 175 80 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM PANGES:

PERCENT OCCORRENCE	<u> </u>	1401111111		JUK!	10.	<u> </u>	OKI A	CE AL	MILIE	2311	COIL	P.11111	1-3.		
FREQUENCY	Y	EARL'	Ý	J	RH-M	R	គា	PR-J	JN	31	UL-S	EP	0	CT-D	EC
	day	nit	d&n	day	nit	din	day	nit	dan	day	nít	d&n	day	nit	dtn
100 MHz	1	- 6	0	ė	3	- 8	1	8	6	1	- 6	1	0	9	6
1 GHz	6	3	4	4	2	3	7	3	5	9	3	€	5	2	3
3 GHz	8	3	6	_ 6	3	4	9	4	6	13	4	_8	6	3	4
6 GHz	14	8	11	10	6	8	13	5	9	19	9	14	16	11	13
10 GHz	35	28	31	35	38	32	26	17	22	32	23	27	46	. 43	44
20 GHz	52	48	50	59	56	57	41	34	_38	43	38	48	66	66	66

SURFACE BASED DUCT SUHWARY:

PARAMETER	Y	EARL'	Y	J	AN-M	RR	RI	PR-J	UH.	J	UL-SI	EP	0	CT-D	EC
	day	nit	dån	day	nit	d&n	day	nit	d£n	day	nit	d&n	day	nit	den
Percent occurrence	6	3	4	5	3	4	5	3	4	9	3	6	4	3	4
AVG thickness Kft	l		. 16	l		. 12	l		.17	•		.24	Į.		.12
AVG trap freq GHz			1.9	1		2.8	1		1.4			1.5	1		2.0
AVG lyr grd -H/Kft			110	L_		73	1		105			146	1		116

ELEVATED DUCT SUMMARY:

PARAMETER	Y	ERRL	Y	J	RH-M	R.	AI	PR-J	UN	31	JL-Si	EP T	- 00	T-DI	EC
	day	nit	d&n	day	nit	din	day	nit	dŁn	day	nit	dån	day	nit	dtn
Percent occurrence	10	14	12	6	7	?	9	14	12	16	23	20	7	10	- 9
AVG top ht 'ft	l		3.9	j		4.2	1		3.5	}		4.3	ļ		3.5
AVG thickness Kft	L		. 25	i		.18			.24			.31	l		.26
AVG trap freq GHz	Г		1.0			1.6			1.0			.61			.77
RYG lyr grd -N/Kfs			28	1		54			58	i		56	1		65
AVG lur base Kft			3.7	.		4.1	ĺ		3.3	Ī		4.0	ĺ		3.3

EVAPARATIAN BUCY HISTAGRAH IN REPCENT ACCURRENCE.

	_		BOC 1 MI				CKLE	N D	CCUR	KEMLI								
FERCE	NT	OCC	URRENCE	Y	EARL	' [_]	J	คพ-ห	AR	RI	アーチ	บห	į <i>3</i> 1	UL-SI	F	- 00	T-DE	EC
				day	nit	d&n	day	nit	din	day	nit	dan	day	nit	៨៩ភ	day	nit	dån
e	10	10	Feet	31	29	30	19	17	18	39	39	39	46	43	45	19	17	18
19	το	29	Feet	20	24	22	24	29	27	23	28	26	17	20	19	16	17	17
20	to	39_	Feet	18	28	_19	25	26	26	15	17	16	11	15	13	21	23	22
25	10	49	Fest	14	15	14	17	18	18	18	9	9	8	10	9	19	21	=0
40	to	50	Feet	7	6	7	8	6	7	4	3	3	5	5	5	11	11	11
58	to	60	Feet	بها	3	3	3	2	2	2	1	2	3	3	_ 3	- 6	ε	6
60	10	78	Fees	1	1	1	1	1	1	1	0	1	1	1	ĩ	2	2	
78	to	88	Feet	1	9	1	1	8	8	1	8	8	1	9	1	1	1	1
80	t Q	98	Feet	1	8	. 0	9	8	9	1	0	હ	1	8	6	9	8	9
90	10	188	Feet	1	0	в	1	0	e	1	8	- 0	1	0	0	<u> </u>	8	ŏ
abo	ve	168	Fee:	4	1	3	2	1	2	4	2	3	(2	4	3	1	2
Hean	he	tah	t Feet	27	22	24	27	24	25	23	18	26	25	28	22	32	28	36

PARAMETER	YE	ARL	Y	JA	14-16	12	AP	R-Ji	JN.	Ji	UL-SE	P	00	T-DI	EC
	OZV	nit	din	day	nit	dŁn.	Jay	nit	n3t.	day	nit	dan	day	<u>ភា t</u>	dan
% occur EL&SB dcts			θ			9			9			1			0
% occur 2+ EL dcts	ļ		1			e	ĺ		9	ŀ		3	ŀ		1
AVG station N	i		315			308			316			326			311
AVG station -N/Kft			12	ì		11			12	Į		14			12
AVG SEC wind Kts	19	12	19	22	22	22	17	17	17	15	15	15	23	22	22

IREPS REV 2.1

Specified location: 45 88 N 165 38 E (*) INDICATES INSUFFICIENT DATA Radiosonde source : 32217 50 80 N 155 22 E

36 Feet Radiosonde station height:

45 00 N 165 00 E Surface obs source: MS164

PERCENT OCCUPRENCE OF ENHANCED SUPERCE-TO-SUPERCE RADAR/ESH/COM PANCES:

PERCENT GLEORREN	E Ur CH	nant	EU :	DURF	NUE -	10-3	UKFRE	E KI	י אנותני	E30	, <u>, , , , , , , , , , , , , , , , , , </u>	L'UNI	<u>. E 3 .</u>		
FREQUENCY	YE	ARLY	,	J	RN-M	AR .	AF	`R-J;	M	JI	JL-SE	Ρ	ŏ	CT-DE	C
Ĺ	da	nit	dan	day	nit	d&n	day	nit	d&r.	day	nit	ರಹಿಣ	day	nít	d&n
100 MHz	8	1	ī	*	*	*	- 6	в	8	1	1	1	6	9	8
1 GHz	6	3	5	#	*	*	5	3	4	91	6	8	3	1	2
3 GHz	8	4	6	_+	+	4	6	3	5	13	3	18	4	1	_ 2
6 GHz	14	9	11	*	*	*	10	5	7	19	13	16	14	8	11
10 GHz	33	27	30	*	*	*	21	15	18	31	27	29	46	48	43
28 GHz	48	46	47	-	¥	*	35	3:	33	42	42	42	67	66	67

SUPERCE RASED DUCT SUMMARY.

PARAMETER	YI	EARL	?	Ji	H-NA	aR .	A	R-J	ИL	JU	JL-SI	EP	00	CT-DI	EC
	day	nit	d&n	day	nıt	d&n	day	nit	den	day	nit	d&n	day	nıs	dan
Percent occurrence	2	3	3	9	9	8	2	3	3	6	7	7	1	1	1
AVG thickness Kft			.28	ŀ					.32	i		.30			.23
AVG trap freq GHz	İ		1.0	1		*	I		.80	ļ		.53	i		1.7
AVG lyr grd -N/Kft			128	L		*	L		116			115			153

FIEVATED DUCT SUMMARY:

ELEVATED DOCT SOITH														
PARAMETER	YER	RLY	J	AH-M	ar .	RI	R-J	UN	Jt	JL-SI	26	06	CT-DE	EC
	day n	it den	day	nit	den	day	nit	d&n	day	การ	d&n	day	nit	dan
Percent occurrence	2	3 3	8	1	1	4	4	4	4	5	- 5	1	2	
AVG top ht Kft	ŀ	3.5			3.6	l		2.7	ĺ		4.2	ĺ		3.6
AVG thickness Kft		. 26	Ĺ		. 15			.24			.41	ł		.22
AVG trap freq GHz		1.8			4.1			1.0			.39			1.5
AVG lyr grd -H/Kft		67			69			67	ĺ		72			59
AYG lyr base Kft		3.4			3.5	ļ		2.6	!		4.8			3.4

EVAPORATION DUCT HISTOGRAM IN PEPCENT OCCURRENCE:

PERCENT	OCCURRENCE	Y	EARL	7	J	AN-H	R.	RI	R-J	314	J	UL-SI	EΡ	91	CT-DI	<u> </u>
		day	n t	d&n	day	กาเ	dan	day	nit	d&n	day	nit	dŧn	day	nit	dan
0 10	18 Feet	31	29	30	19	20	20	43	41	42	46	41	43	16	15	15
18 to	20 Feet	22	26	24	30	33	31	23	38	27	16	21	18	17	19	18
20 10	30 Feet	18	21	20	25	27	26	14	17	15	12	16	14	22	26	24
30 to	40 Feet	13	13	13	14	14	14	8	7	8	5	10	9	21	22	21
40 to	50 Feet	6	6	6	6	4	5	3	2	3	5	5	5	11	11	11
58 to	68 Feet	3	3	3	2	1	_ 2	2	1	1	3	3	3	Ε	. 5	6
60 10	70 Feet	1	1	1	0	8	9	ī	1	1	2	1	1	2	1	2
70 to	80 Feet	1	8	1	8	8	8	1	0	1	1	1	1	1	1	1
88 to	90 Feet	<u> </u>	. 0	8	<u> </u>	6	<u> </u>	1_1_		B	ı	6	ı	. 6	9	8
98 10	100 Feet	0	9	Ö	0	- 6	8	1	-0	0	T	0	8	0	e	3
above	100 Feet	4	1	2	2	í	1	4	1	3	7	1	4	3	9	2
Mean h	ight Feet	26	21	24	24	21	22	22	17	19	26	29	23	52	27	29

GENERA! NETEOFOLOGY SUMMARY:

PARAMETER	YEAPLY	JAN-HAR	APP-JUN	JUL-SEP	OCT-DEC
	day nit das	day nit din	day nit den	day nie dan	day nit din
> occur ELASB dcts	[9	8	0	8
% occur 2+ EL dets	(1 8	į e	3	e
AVG Station H	316	308	317	327	311
RVG station -R/KCt	13	11	12	12	11
AVG sfc wind KES	19 19 19	22 22 22	17 16 17	15 14 14	22 22 22

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

(*) INDICATES INSUFFICIENT DATA

Radiosonde station height: 230 Feet

Surface obs source: MS155 45 00 N 155 00 E

PEPCENT OCCURRENCE OF ENHANCED SUPERCE-TO-SUPERCE RADAR/ESH COM RAYGES:

PEPCENT OCCURRENCE	<u> </u>	11111111111	- LD .	JUKE	ICE	, 0-3	J-7 - 111	~E ~!	INITIA.	<u> </u>		K/11 14	,		
FREQUENCY	Y	EUST.	Υ	Ji	AN-MA	RR	Al	R-J	JN	J	JL-SI	EP	00	CT DE	C
[day	nit	d&n	day	nit	dan	day	nit	din	day	nit	d&n	day	nit	atn
100 MHz	0	1	1	- 0	0	0	1	1	1	1	1	1	0	- 0	9
1 GHz	6	4	5	1	1	1	7	5	6	12	7	9	5	1	3
3 GHz	_ 8	_ 5	_ 6	1	_ 1	1	9	6	8	16	8	12	6	2	4
6 GHz	14	9	12	4	3	3	12	9	11	24	16	26	16	19	1.3
10 GHz	33	28	39	22	20	21	23	18	21	38	33	36	47	42	45
20 GHz	49	48	49	46	44	45	35	33	34	49	48	49	68	66	67

CHDEACE DACED DHCT CHMMADY.

SURFACE BASED DUCT 3	SUMMENT.				
PARAMETER	YEARLY	JAN-MAR	PPR-JUN	JUL-SEF	CCT-DEC
	day nit d&n	day nit dan	day nit dan	day alt den	day nit den
Percent occurrence	4 5 4	0 1 1	5 7 6	989	3 2 3
AVG thickness Kft	.17	.16	.24	.15	.15
AVS trap freq GH2	1.7	2.7	1.8	1.2	1.9
AVG lur and -N/Kft	363	734	145	191	147

EFFAUSER BOCK SOUND									
PARAMETER	YEARLY	JAN-	MAR	APR-J	JN -	301-9	EP	001-1	FC
	day nit da	niday ni	1 1&n	day nit	d&n	day nit	den	day nit	d&n
Percent occurrence	3 3	3 _ 1 _	i i	2 4	. 3	7 - (7	1 1	1
AVG top ht Kft	7.	Βļ	i7	ł	3.9	ļ	3.9	ł	3.1
AVG thickness Kft	.2	9	.18		. 25	l	.46	l	.28
AYG trap freq GHz	1.	9	1.3		3.7	i	.57		.49
AVG lyr grd -N/Kft	6	4 [64	!	58	ļ	63	i	73
AVG lyr base Kft	6.	8	17	L	3.7	L	3.6	<u> </u>	2.3

EVAPORATION BUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCUPRENCE	YI	EARL'	Y	J	H-H	AR	A:	R-J	JH	31	JL SI	P	O:	T-D8	C
Ĺ <u> </u>		day	กาเ	d&n	day	nıt	d&n	day	nit	dan	₫ ₽%	e11 t	din	day	nit	d£r,
8 10	18 Feet	32	30	31	23	22	22	47	45	46	43	38	40	16	15	16
19 00	20 Feet	26	24	22	31	34	32	21	26	24	13	18	15	16	19	18
20 to	30 Feet	17	20	19	24	24	24	13	15	14	11	_1€	14	21	24	_23_
30 to	40 Feet	12	13	13	14	14	14	8	- 8	\$	9	12	19	19	21	20
48 to	50 Feet	6	6	6	4	3	4	3	2	2	6	7	6	12	12	12
_ 50 to	60 Feet	3	3	3	1	. 1	1	_2	_1	1	4	4	4	_6	ട	. 6
60 to	70 Feet	2	1	1	1	Ð	8	1	î	1	2	5	2	3	1	2
76 tc	88 Feet	1	8	1	8	0	8	1	8	1	1	1	1	1	8	1
88 to	98 Feet	Ø	_ 6	_ ខ	8	G	8	_1	8	9	_1	8	1	_ 6	0	_ 8
98 to	100 Feet	3	G	G	9	8	0	1	e	0	1	0	Ø	0	- 6	ð
above	188 Feet	4	2	3	1	1	1	4	2	3	8	3	6	4	1	2
Hean he	ight Feet	27	22	25	22	21	21	21	17	19	31	24	27	34	20	<u>31</u>

PARAMETER	YEARLY	JHH-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit dan	day nit dan	day nit din	day nit dun
% occur EL&SB dcts	0	Ø	6	9	8
% occur 2+ EL dcts	9	9	8	0	8
AVG station H	315	307	315	327	312
AVG station -N/Kft	12	11	12	12	12
AVG sfc wind Kts	18 18 18	22 22 22	16 16 16	14 13 14	20 28 26

Specified location: 44 01 H 145 49 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 22165 44 01 N 145 49 E

Radiosonde station height: 157 Feet

Surface obs source: MS166 45 00 H 145 CG E

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM-COM RANGES:

FRE	QUENCY	Y	ERRL'	Y	Jf	in-Hi	3R	AI	PR(JN	JU	JL-SI	EP	01	CT-D!	EC
		day	nit	d&n	day	nit	d&n	day	11 <u>11</u>	dån	day	nit	dŧn	day	nit	din
100	MHz	0	9	0	0	0	8	1	1	:	1	1	1	Ð	Ø	. 0
1	GHz	12	9	11	4	2	3	11	9	10	23	18	20	11	8	9
3	GHZ	14	11	13	4	3	4	13	_10	12	26	28	23	14	19	12
6	GHz	22	18	26	7	- 5	6	17	13	15	35	30	32	39	24	27
16	GHz	39	35	37	24	20	22	27	22	24	47	45	46	59	55	57
20	GHz	54	52	53	47	43	45	37	34	35	36	56	56	75	74	74
	100 1 3 6 10	FREQUENCY 100 HHz 1 GHz 3 GHz 6 GHz 10 GHz 20 GHz	FREQUENCY Y day 100 HHz 0 1 GHz 12 3 GHz 14 6 GHz 22 10 GHz 39	FREQUENCY YEARL' 100 MHz 0 0 1 GHz 12 9 3 GHz 14 11 6 GHz 22 18 10 GHz 39 35	FREQUENCY YEARLY day nit dan 100 HHz 0 0 0 1 GHz 12 9 11 3 GHz 14 11 13 6 GHz 22 18 26 10 GHz 39 35 37	FREQUENCY YEARLY day nit dan day 100 HHz 0 0 0 0 1 GHz 12 9 11 4 3 GHz 14 11 13 4 6 GHz 22 18 26 7 10 GHz 39 35 37 24	FREQUENCY YEARLY JAN-hi day nit dan day nit 100 HHz 0 0 0 0 0 1 GHz 12 9 11 4 2 3 GHz 14 11 13 4 3 6 GHz 22 18 26 7 5 10 GHz 39 35 37 24 20	FREQUENCY YEARLY JAN-HAR day nit dan 100 HHz 0 0 0 0 0 0 0 0 0 1 GHz 12 9 11 4 2 3 4 6 GHz 22 18 26 7 5 6 10 GHz 39 35 37 24 20 22	FREQUENCY YEARLY JAN-HAR AND AND AND AND AND AND AND AND AND AND	FREQUENCY YEARLY JAN-HAR APR-LY day nit dan day nit dan day nit dan day nit dan day nit 100 HHz 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1	FREQUENCY YEARLY day nit dân day nit dân day rit dân JAN-HAR day nit dân day rit dân APR-LUN 100 HHz 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FREQUENCY YEARLY JAN-HAR APR-UN JAN-HAR 100 HHz 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1	FREQUENCY YEARLY day nit dan day nit d	FREQUENCY YEARLY day nit dan day nit day nit day nit day nit dan	FREQUENCY YEARLY JAN-MAR APR-UN JUL-SEP OCT-DI day nit dan day nit dan day rit dan day rit dan day nit day nit day nit DUCT SUMMARY:	

PARAMETER	Y	EAKL		ु ।	Pik - M	RR	AF	R-JI	JN	JI	JL-\$1	EP	01	CT-DI	EC
_	day	nit	d&n	day	nit	J&.	day	nit	dan	day	nit	din	day	nit	dt n
Percent occurrence	3	3	3	8	1	Ţ.	4	4	4	7	6	7		2	2
AVS thickness Kft			.24	1		. 20	ł		.23	i		.22	l		.29
AVG trap freq GHz			1.1	l		1.5	1		. 64	ļ		.73	l		1.7
AVG lun grd -MrYft			159	Ĺ		149	<u> </u>		176	<u> </u>		145	L		163

ELEVATED DUCT SUMMARY:

PARAMETER	YI	EARL	4	J'	H-HP	R.	RI	R-31	Jts	Ji	JL-SI	EP.	C	T-DI	C
	day	nit	der	day	nit	d&n	day	nit	づない	day	nit	dŁn	day	nit	dkn
Percent occurrence	6	6	6	1	1	1	8	6	7	13	15	14	2	2	2
AVG top ht Kft			3.2	Ì		4.0			3.4			4.3	ŀ		1.0
AVG thickness Kft			. 26	Ĺ		. 10			.33		_	.41			.18
AVG trap freq GHz			3.1			8.6			1.4			.50			ī. ?
AVS lyn and -N/Krt]			57	ŀ		48	l		60	i		57	l		64
AVG lyr base Pft			3.0	ŀ		3.9			3.1	į		4.8	l		.86

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

EAULO		100	DOL 1 MT.	2 . Our					LCON	CITCE	<u> </u>							
PERC	EHT	OCCL	JRRE!!CE	1 6	ARL	7	J	AN-MI	RR	A:	۱۲ - ۲ ۲	JN	Jt	/L-\$1	F	00	1-59	EC
[da	nit	d&r.	day	211	ckn	day	nit	d&n	day	nit	dan	day	rit	dtn
8	10	10	Fest	31	36	30	23	24	24	50	48	49	38	33	36	12	12	12
10	10	20	Feet	17	20	19	31	32	32	16	20	18	10	14	12	13	14	14
20	40	39	Feet	14	16	15	22	23	23	10	_12	11	9	11	10	16	19	:8
38	50	40	Feet	11	11	11	11	12	12	7	6	7	7	9	8	16	17	17
40	10	50	Feet	7	6	7	6	3	4	3	3	3	5	7	6	13	13	13
50	t o	69	Feet	4	_4	4	2	1	2	_2	1	2	4	_ 4	4	8_	. 7	ક
60	10	7e	Feet	2	2	2	1	9	ī	1	1	1	3	3	3	5	4	4
70	19	89	řeet	2	:	1	8	•	9	1	8	1	2	2	2	3	3	3
80	to	98	Feet	1_1_	1	1	6		9	1	. 0		_ 1		1	2	1	2
90	to	100	Fest	1	8	1	0	0	0	1	Ø	1	1	8	1	1	1	1
10	ove	186	Feet	11	8	3	4	2	3	9	7	ε	20	15	17	19	7	9
lie a	n h	e i Ghi	Feet	38	34	36	26	_ 22	24	28	25	26	53	46	49	48	41	45

PARAKETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
l	day nit da	day nit din	day not dan	day nit dên	day nit din
% occur EL&SE dcts		6	8	Û	0
% occur 2+ EL dets	(9	0	1	0
AVG station H	321	309	328	339	313
RYG Station -N/Kft	2:	11	12	13	12
AVG SEC WING KES	15 15 1	20 20 20	14 13 14	12 11 12	17 16 16

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUBMARY

Specified location: 46 55 N 142 43 E (*) INDICATES INSUFFICIENT DATA Radiosonde source : 32150 46 55 N 142 43 E

Radiosonde station height: 102 Feet

Surface obs source: MS166 45 90 N 145 90 E

PERCENT & COUPRENCE OF EMHANCED SUMFACE-TO-SUFFACE RADAR/CSCI/COM RANGES:

	LE CENT : LE OI INCHIEL	<u> </u>			<u> </u>	100	• • • •	A1-4 -16		*****			C	•==		
Į	FREQUENCY	11	EARL	Y	J	AN-H	AR T	, <u>1</u>	R-JU	ih .	Jŧ	JL-SI	P	00	CT-DE	EE
1	[G ₄ y	nit	din	بردوا	nit	den	day	eit	den	day	nit	dan	dav	nit	din
ļ	100 HHz	8	9	. 6	9	9	0	9	9	0	7	1	1	0	0	0
	1 CHz	12	9	10	1 4	4	3	10	7	8	22	17	26		8	9
ļ	3 GHz	14	18	12	5	2	3	12	8	10	26	20	23	1 1-	16	12
1	6 GHz	22	17	28	8	4	6	16	11	13	35	29	32	30	25	55
۱	10 GHz	39	35	37	25	17	53	26	29	23	47	45	46	59	25	57
1	20 GHz	50	51	52	47	43	45	36	32	34	55	56	55	7%	74	74

SUPFACE BASED DUCT SUMMARY:

JOST NEE BUSED DOCT	20.111111111111111111111111111111111111					
PARAMETER	YEARLY	1	JP:1-58R	APR-JUN	JUL-SEP	OCT-DEC
	day nit d	in da	ay nat dan	day nit den	day nit ±&n	day nit car
Fercent occurrence	3 3	3	1 0	3 2 3	7 6 7	1 2 2
PVG thickness Kft		22	-13	.23	.22	.30
AVG trap freq GHz	[1	. 9	3.5	2.3	1.3	.55
AVG for ore -HIKES	1	16	13:	121	115	96

ELFVATED DUCT SUMMPRY:

EFFAM.ED OGE 1 20MML														
PRRAMETER	TEARLY		J	431-US	ìR	af	R-3	17.	Jt	IL-SE	F	90	T-DE	EC
L	day nit	d&n	day	nit	din	dsy	nit	dan	day	nit	dan	day	nit	dan
Percent occurrence	3 2	2	ī	- 6	1	-2	3	3	7	5	6	1	- 6	
AVG top ht Kft	l	6.7	l		17	i		2.5			4.4	ļ		3.3
Aug thickness Kft		.29			.25	I		.28			. 35			, 27
AVG trap freq GHz		.82			.82			.82		_	. 54			1.1
AVG lyr grd -H/Kft		64	1		65			72			55	l		64
AVG lyr base kft		6.5			17	L		2.3			4.1	L		3.1

E-APORATION DUET HISTOGRAM IN PEPCENT OCCUPRENCE:

PERCENT OCCURRENCE		EARL			Ate-Mi			R-J	JH	3	JL-55	٩	00	T-DE	<u>.c</u> –
	day	nit	din	day	n.t	dtn	day	n13	dan	day	ոււ	dtn	Cay	nit	ctn
0 to 10 Feet	31	36	30	23	24	24	50	48	40	38	33	36	12	12	:2
10 to 28 Feet	17	20	19	31	32	32	16	28	18	10	14	12	13	14	14
20 10 30 Feet	i 14	16	15	22	_23	_23	10	12	11	9	11	16	16	_ 19	įė
30 to 40 Fee.	111	11	11	11	12	12	7	- 5	7	7	ě	8	16	17	7.7
40 to 50 Feet	7	6	7	=	3	4	3	3	3	5	7	6	13	13	13
50 to 50 Fee	4	4	_4	2	1	_ 2	3	1	2	1 4	. 4	4	. 8	. 7	. 8
60 to 70 Feet	2	2	2	1	8	1	1	1	1	3	3	3	5	4	4
70 to 30 Feet	1 2	ŧ	1	0	9	9	ı	0	:	1 2	2	2	3	3	3
80 tc 98 Feet	1	1	1	8	0	Ü	1	6	:		1	. 1	_ 2	1	2
90 to 100 Feet	1	0	1	0		8	1	8	1	1	6	1	1	1	ī
shove 188 Feet	11	8	9	4	2	3	9	7	٤	20	15	17	19	7	Ģ
_Rean height Feat	38	34	36	2€	22	24	28	25	26	53	÷6	49	42	41	45

SCHETTIE HETEOROLOGI	. 21111111	<u> </u>												
PARAMETER	YEARL	7	Ji	a:t-M	AF.	AF	₹-J	אט	31	JL-5!	EP -	00	7-DE	Č
	day nit	d£ n	day	nit	din	dav	nit	dan	034	110	din	بيدي	216	dt ·
& occur FLESE dets		8			0			0			0			3
2 occur + EL dcts		Ü	1		9	İ		9	i		6			Ú
RVG starten N		320	1		312	ļ		318	1		337	İ		314
AVG station -N'Kft		12	ĺ		11			12			: 3			12
HYG sfc wind its	:5 15	15	20	20	20	14	13	14	12	11	12	17	16	:0

Specified location: 46 46 H 141 22 E Padiosonde source : 47580 40 40 N 141 22 E

(*) INDICATES INSUFFICIENT DATE

Radiosonde station height: 128 Feet

Surface obs source: KS:66 45 88 H 145 88 E

PERFORM ACCURAGE AS ENGAGER CHARGE TALCHORAGE DAMADLESM CAM DAMAGE.

										_			- ,,,,,,,			
	FREQUENCY	Y	EF.RL'	Υ .	j.	AH-K	6R ;	A F	-R-JL	JH .	Ji	ルー58	EP	- 06	CT-DE	EC
		dsy	nis	dan	day	12 1 8	den	day	nit	7&n	cay	211	dÇn	day	nit	den
ı	100 MHz	e	0	9	*	+	*	8	9	0	9	6	9	0	8	8
1	1 SH≥	1 13	10	12	*	*	#	9	?	8	21	15	18	18	7	9
1	3 GHz	15	12	14	*	*	*	11	8	9	2:3	19	21	13	9	11
1	6 GHz	25	21	23	-	_ <u>*</u>	#	15	11	13	32	28	39	29	23	26
1	10 CHz	43	39	41	ŧ	*	*	25	20	22	45	44	44	58	54	₹.5
	20 GHz	54	53	54	_*_	*	£	35	≎2	33	53	55	54	75	73	74

SUPPORE BASET BUCT SUMMARY:

PARANETEP	Ϋ́	ERRL'	ř	J	8H-81	1R	Af	-R-31	JN	J	iL-SI	P	0	CT-DS	EC
	day	nit	der	day	nit	dan	day	niz	din	day	nit	dir	189	nıt	den
Percent occurrence	1	2	1	Ð	9	S	1		1	3	5	4	Ð	0	Ü
AVG thickness Kft	l		.28	l		*			. 26	l		.19			. 39
AVG trap freq GHz			1.5	i		#			1.3	l		2.4			.94
AVG for grd -H/Kfs	Ĺ		141	L					118			155			158

PARPHETER	31	HPL'	4	J	AH-H	RR	. Ai	PR-3	U!:	3	JL-SI	Eb	00	CT-DI	EC
	day	nit	dan	day	r-12	den	day	nit	dŧn	Vet	nit	den	day	nit	d&n
Percent occurrence	3	4	4	0	0	9	4		- 4	ϵ	11	9	2	2	
A√G top ht Kft	ł		5.3	1		10	l		3.0	Į .		5.1	ì		3.4
AVG thickness Kfl	i		. 24	1		. 99	l		. 35	l		- 35	ĺ		17
AVG trap freq GHz			2.2			4.1			.59			.84			3.4
AVG lyr grd -H/Kft	i		58	Į		€5	1		39	l		55	i		55
AVG for base Fft	ł		5.1	•		10	İ		2.7	l		4.8	ł		3.3

EVAPORATION DUCT HISTOGRAP IN PERCENT OCCURPENCE:

PERCENT OCCUPRENC	YEARLY	JAN-MAR	RFR-JUH	JUL-SEP	OCT-DEC
	day not der	day nie dan	day ni dan	day nit dan	dau nit den
& to 10 Feet	31 30 30	23 24 24	50 48 49	38 33 35	12 12 12
10 to 20 Feet	17 20 19	31 32 32	16 20 18	10 14 12	13 14 14
20 to 30 Feet	14 15 15	22 23 23	ie 12 11	9 11 10	16 19 18
30 to 40 Feet	11 11 11	11 12 12	7 6 7	7 9 8	16 17 17
40 to 50 Feet	7 6 7	6 ? 4	3 3 3	5 7 6	13 13 13
50 10 60 Feet	4 4 4	1 2 1 2	2 1 2	4 4 4	A 7 3
60 to 70 Feet	2 3 3	1 0 1	1 1 1	3 3 3	5 4 4
70 to 80 Feet	2 1 1	1 8 8 8	1 6 1	2 2 2	3 3 3
20 10 90 Feet	1 1 1	5 0 6	2 0 1	1 1 1	2 1 2
90 to 180 Feet	1 0 1	0 9	1 6 1	1 8 1	1 1 1
above ICO Feet	111 8 9	4 2 3	9 7 8	28 15 17	10 7 9
Hean reight Feet	38 34 36	26 22 24	28 73 2€	53 46 49	49 41 45

PARAMETER	YE	HRL		36	111-11	3F.	R	PR-31	UN:	JU	L-SI	F	00	T-DE	:C
	Cau	411	din	day	r.11	d&n	Car	211	d'an	day	***	den	da	nit	d\$n
% eccur EL&SE dets			8			8			0			0			3
% occur 2+ EL dcts			3			9	í		0			1			0
AVG station H			228	İ		311			325			355			318
AVG ation -H-Kft			12			11			12			13			12
AVE SEC WIND KIS	15	15	15	20	26	20	14	13	1-1	12	11	12	17	16	16

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUHMARY

Specified location: 48 54 N 144 36 E (*) INDICATES INSUFFICIENT DATA

Padiozonde source : 32899 48 54 N 144 36 E

Radiosonde station height: 108 Feet

Surface obs source: NS166 45 88 N 145 88 E

PERCENT OCCURRENCE OF ENPANCED SURFACE-TO-SURFACE RADAR/ESH-COM RANGES:

FREQUENCY	Y	EARL	Y	J	คพ-ห	PR	A!	R-JI	UN	J	UL-S	EP	G	T-0	EC
[day	nit	den	day	A1:	din	Say	nit	đần	day	nit	-ian	day	mit	dtn
100 MHz	1	1	1	9	3	0	8	1	1	2	1	2	В	1	1
1 GHz	13	11	12	4	3	3	10	11	11	26	19	22	12	9	1:
3 GH2	16	_ 13	14	1 4	4	4	13	14	13	30	22	26	16	12	14
6 GHz	24	20	22	7	6	7	17	19	17	49	32	36	31	27	<u>5</u>
19 GHz	41	38	39	24	21	23	27	27	27	51	47	49	69	56	58
28 GHz	55	54	54	47	44	45	37	39	33	59	57	58	76	75	15

SURFACE BASED DUCT SUMMARY:

SOKENCE SHOED DOC!	SOMME	•												
PARAMETER	YERR	ELY.	J	<u>ยห−นเ</u>	AF.	Al	PR-J	ijΗ	31	JL - 31	F	96	T-DI	<u>:</u>
	day ni	t dån	day	nit	den	day	nit	đặn	day	nit	den	100	nit	din
Percent occurrence	7	8 7	e	3	2	5	13	9	15	19	13	5,	6	-6
AVG thickness Kft	ļ	.18	}		. 69	j		.23	ļ		.17	į		. 23
AVG snap ineq GHz	<u>!</u>	1.9	i		2.3	1		2.2			1.2			1.3
RVG_1yr gra -N-Kft		198	Í		123	l		146			302			192

ELEVATED DUCT SUMMARY:

PARAHETER	71	EARL	Y	J	ลห-หล	AR.	R!	R-J	UH	Jŧ	JL-S	EΡ	0	T-DI	E
	447	nit	din	day	nit	d£n	day	nit	dir	day	nit	cin	day	กาเ	dtn
Percent occurrence	-2	1	2	9	9	0	2	2	2	5	3	4	0	0	0
AVG top ht Kft			2.3	l		*	l		2.6	i		:.9	i		•
AYG thickness Kft		_	.36			*	j		. 35			.36			÷
RVG trap frag GHz			.39			+	<u> </u>		.69			1.1			+
AVG lyr grd -N/Kft	Ì		59	l		*	1		55			63			+
AVG lur base Kft	1		2.8				Ì		2.3			1.7			+

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPPENCE:

PERCENT OCCURPENC	FY	ERRL'	Y	3	en-Hi	i£	RI	P-Ji	214	J	JL-S	Ρ	63	7 28	i
	day	rit	den	day	nit	din	day	การ	den	day	niz	Gir	day	ทาง	d\$n
0 to 10 Feet	31	30	30	23	24	54	58	48	49	3٤	33	3€	12	12	5
10 to 28 Feet	17	28	19	31	32	32	16	5.9	18	18	14	12	13	:4	14
20 to 30 Feet	14	16	_:5	22	_23	23	19	12	11	9	11	12	1€	19	3:
30 to 40 Feet	11	:1	11	11	12	12	7	5	7	7	9	8	16	17	17
48 to 59 Feet	7	€	7	6	3	4	3	3	3	5	>	6	13	13	:3
58 to 68 Feet	4	. 4	4	2	1	2	2	ı	2	4	4	4	8	7	8
68 to 70 Feet	2	2	2	1	છ	1	- 5	$-\bar{\imath}$	1	3	3	3	5	4	- ∓
70 to 80 Feet	2	1	1	e	9	Ð	1	8	1	2	2	2	3	3	3
88 to 90 Feet	1	_ 1	. 1	0	. 8	9	. 1	6	1	1	1	1	2	1	2
98 to 188 Feet	1 1	e	;	е	3	9	ī	Ü	ī	7	0	1	1	1	1
above 100 Feet	111	8	9	4	2	3	9	7	5	20	15	17	10	7	9
Mean height Feet	38	34	36	26	22	24	23	25	26	53	46	49	48	41	45

GENERAL METERRALACY SUMMARY:

PENESAT BELEGROFOTAL	SUARHET:				
PAPAMETER	YEARLY	jan-Har	APP-Juit	JUL-SEF	UCT-DEC
<u></u>	dev are dea	day are den	day nii din	day nit dan	day nit din
% occur ELASE dets	3	ō	0	ย	9
2 occur 2+ EL dets	е	9	6	9	0
ATE station H	318	312	318	338	3:3
AVG station -H/Kft	12	7.1	12	13	12
A-6 sfc uind his	15 15 15	26 20 20	14 13 14	12 11 12	17 16 16

Specified location: 43 19 N 145 34 E (+) INDICATES INSUFFICIENT DATA

Radiosonde source: 47420 43 19 N 145 34 E Radiosonde station height: 85 Feet

Surface obs source: #3166 45 80 H 145 68 E

DEDCENT OFFIDDENCE OF ENHANCED CHOPAGE_THECHDORF DADAD FOM COM DANCES

LERCENT OCCORRENCE	JF ET	<u>inhni</u>	<u>, Eu :</u>	THU	HUE	10-51	322 HI	ER	אמוטא				<u>LES.</u>		
FREQUENCY		SEL			RH-4			R-1			الد-غا		יַט	•	
[day	nit	dŁn	day	nit	den	Jar.	ni i	den	Gay	nit	den	day	nit	den
:00 HHz	0	9	_3	*	*	*	9	9	8	8	9	0	9	0	0
i úHz	14	16	12	*	*	*	۶ ا	7	8	21	16	18	11	7	9
3 GHz	16	12	14	*	*	*	11	8	18	23	13	28	14	9	12
6 GH≥	26	21	23	*	+	*	15	11	13	32	27	30	38	24	27
10 Gliz	43	39	41.	*	*	•	25	28	22	45	43	44	59	54	57
20 GKz	54	53	54		*	¥	35	32	33	<u>53</u>	54	54	75	73	74

SHEFACE RASED DUCK SHMMARY:

PARAMETER .	YEARLY	,	3	111-ME	R.	AF	Q-J	UN	J	<u></u> SE	Ρ	UC	:6	ē -
	day nit	din	day	nit	den	day	ntt	dån	day	nit	420	0 20	ni z	din
Percent accurrence	1 1	1	a	8	9	1	1	1	3	2	2	2	 ፣	- z
AVG thickness Kft		.35			*			.32			.43			.31
AYG trap freq GHz		.92	l		•			.56			.79			1.4
AVG lur grd -H/Kft		158	L		_=_!	L		152			159			162

ELEVATED BUCT SUMMARY:

ELEVATED BUCI SUMMA	27:												
PARAMETER	YERRLY	\top	JAN-M	AR	AF	R-JU	M	J:	JL-SE	Р	ac	T-DE	[
	day nit di	nid	ay nit	-d&n	day	n't	din	day	nit	d&n	day	nit (dår,
Percent ossurrence	5 6	5	1 0	1	5	7	7	12	12	12	1	3	2
AVG top ht Kft	4.	4]		4.4	l		2. î	l		4.7	!		6.5
AVG thirkness Kft		9		.28	L		.32	L		.33	L		. 29
AVG trap freq SHz	1.	9		1.0			.65			.74			1.6
AVG lyr grd -N/Kfs		7		61	}		55	i		51	Ì		62
AVG lur base Kft	4.	2		4.3	L		1.9	Ĺ		4.4	L		6.3

E-AFORATION DUCT HISTOGRAM IN PERCENT GCCURRENCE:

PERCENT OC	UPRENCE	71	EARL'	,	3	AH-H	AR	A	PR-J	JN	71	JL-S!		- 00	T-D	EC
		274	nit	din	day	nis	đin	ಗಕ್ಕು	ni:	d\$n	day	nit	din	dau	กาเ	din
8 to 18	Feet	31	36	39	23	24	24	56	48	49	38	33	36	12	12	12
18 to 28	Fest	17	28	19	31	32	32	16	20	18	10	14	12	13	14	14
20 10 36	Feet	14	16	15	22	53	23	10	12	11	9	11	18	16	19	18
30 10 40	Feet	11	11	11	11	12	12	7	- 6	7	7		- 8	16	17	17
40 to 50	Fest	7	6	7	6	3	4	3	3	3	5	7	5	13	13	:3
50 to 60	Feet	4	4	4	_2	1	2	_2	1	. 2	4	4	. 4	8	?	8
50 10 70	Feet	2		2	ī	0	1	1	1	1	3	3	3	5	3	
73 30 80	Feet	2	1	1	8	9	6	1	8	1	2	2	2	3	3	3
80 10 50	Feet	1	i	1	_0	9	9	1	0	1	1 1	1	1	2	_1	2
98 10 100	} fee(1	3	1	0	0	0	1	0	1	1	ũ	1	1	1	1
above 100) Feet	11	8	9	4	2	3	9	7	8	20	15	17	10	7	9
Hean heigi	it Feet	35	34	36	26	22	24	28	25	26	53	46	49	42	41	45

GENERAL METEOROLOGY SUMMARY:

PRRAMETER	YEARLY	คม-หลก	APR~JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit dan	day nie dan	day nit dan	day nit din
% occur ELESB deta	0	0	0	8	্য
1 occur 2. EL dets	0	8	6	6	6
BVG station H	322	310	322	342	315
AVG station -d/Kft	12	11	12	13	12
AVG sec wind hes	15 15 15	20 20 20	14 12 14	12 11 12	17 16 16

5

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 49 88 N 148 16 E (*) INDICATES INSUFFICIENT DOTA

Radiosonde scurce: 31770 49 00 N 140 16 E Radiosonde station height: 72 Feet

Surface obs source: #8166 45 80 N 145 89 E

PERCENT OCCURRENCE OF ENMANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

PERCHAI OCCORREDCE	Jr E	14.:12101		SURF	ACE-	. 0 - 3	UFFR	. C P.	INCK	E3U	CON	KRIN	, 53,		
FREQUENCY	Y	EARL'	Υ	31	AN-H	R	9!	R-51	Ή	J:	JL-SI	EP	G	CT-DI	£C
L	day	nit	d2n	day	nit	den	day	nit	dŧn	day	nit	dŁn	day	5117	dżn
167 MHz	9	8	- 0	. 0	9	8	9	G	8	-	1	1	9	8	Ð
! GHz	12	9	10	4	2	3	10	8	9	22	17	28	11	7	9
3 Ch7	14	10	12	_4	3	3	12	9	10	25	20	22	14	. 3	12
6 GHz	22	17	19	7	5	- 6	16	11	14	34	79	32	39	- 23	27
10 GH2	39	35	37	24	20	22	26	28	23	46	45	45	59	54	56
28 GHz	53	31	とふ	47	43	45	36	32	34	55	56	5\$	75	73	74

SUFFACE BASED DUCT SUMMARY:

PARAMETER	YE	ARL	Ÿ	J	AN-M	ĤR	A	PR-J	UN	J	UL-SI	E P	0	CT-DI	EC
	Jay	11:3	dan	day	nit	dtn	day	nit	dån	day	nit	d&n	day	nit	d≥n
Percent occurrence	3	2	2	ã	1	1	3	2	3	5	- 6	- 6	2	Ð	1
AYG thickness Kft	[.28	[. 10	ĺ		. 33	•		. 15	1		.20
RVG trap freq GHz	ł		1.7	1		3.4			1.2	i		.91	l		1.4
AVG lyr crd -N/Kft			387			581	i !		161	<u> </u>		162			325

ELEVATED DUCT SUMMARY:

PARAMETER	Y	ERRL	,	J	H-M	R	R	PA-J	אט	J	JL-SI	P	Oi	T-DI	EC
	day	nit	d&n	day	រារ	d&n	day	nit	den	day	r.it	din	day	nit	d£n
Percent occurrence	2	2	2	9	0	- 3	1	3	2	4	5	3	1	Ð	1
AYG top ht Kft			4.1	l		5.9	ì		3.4	l		4.2	i		2.9
AVG thickness Kft			.22			.08	Í		.22	.		.31			.27
AVG trap freq GHz			2.4			3.7			1.2			1.6			3.0
AVG lyr grd -H/Kft			81			67	l		58	l		51	!		128
AVG lyr base Kft			4.9			5.8			3.3			4.0			2.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT (OCCURRENCE	Y	ERRL	7	31	AH-MI	1R	AI	R-J	JH	71	JL-51	P	00	T-D	C
i		day	nit	din	day	nit	den	day	กรร	din	day	rit	d\$n	day	nit	din
0 10	io Feet	31	36	39	53	24	24	58	48	7.9	38	33	36	12	12	12
] 18 to 3	28 Feet	17	20	19	31	32	32	15	28	18	19	14	12	13	14	14
20 to 3	30 Feet	14	16	15	22	23	23	18	:2	11	9	11	16	16	19	18
30 to	40 feet	11	11	11	11	12	12	7		7	7	- 9	3	16	17	17
49 10 3	50 Feet	7	6	7	6	3	4	3	3	3	5	7	6	13	13	13
50 to 6	50 Feet	4	4	4	_ ≥	1	_2	2	1_	_2	4	4	4	8	. 7	8
69 tc	70 Feet	2	2	5	1	9	1	1	1	- ;	5	3	3	5	4	- 1
70 to 4	38 Feet	2	1	ī	8	8	8	1	8	1	2	2	2	3	3	3
80 10 9	90 Feet	1	1	1	0	8	- 8	<u>!i</u>	0	1	1	_ 1	_1	2	1	2
90 to 1	IRB Feet	1	- 8	1	0	- 0	ē	7	- 6	1	1	9	1	1	1	1
ahove 1	100 Feet	11	8	9	4	2	3	9	7	8	20	15	17	10	7	ايت
Hean he:	ght fest	38	34	36	26	22	24	28	25	26	53	÷6	49	48	41	45

GENERAL METECPOLOGY SUNHARY:

GENERAL METEOROGOGI	301111111111111111111111111111111111111													
PARAMETER	YERRL	'	JA	H-MAI	₹	RPR	:- วิน	H]	Jt.	12-SE	P	00	:T-2(32
	day nit	den	day	nit (130	day i	3 1	dtn	day	nit	den	day	nit	ರಕೂ
% occur EL&S& dc:s		9			9			9			0			0
% occur 2+ EL dcts		0			8			8			8	(0
AVG station H		318	1	:	311			316	}		334	Į.		310
AVG station -N/Kft		11	Í		11			11			13	İ		2 5
AVG sfc wind kis	15 15	15	20	20	20	14	13	14	12	11	12	:7	16	

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 45 23 N 141 48 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 47481 45 25 N 141 48 E

Radiosonde station height: 10 Feet

Surface obs source: MSISS 45 00 N 145 00 E

P-PCFNT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESH/COM RANGES:

FEFCERS S	SECONNERCE	-Jr E	IRETAIN.	- ED_	3041					*****	L 311		A. C. 1974	***		
FRE	YUENCY	Y	ERRL'	Ÿ	J	หล-หล	AR .	Al	P-3	JN	31	UL-S	ĒΡ	ő	CT-DE	EC
		day	กรร	din	asy	nis	dan	day	mit	d&n	day	nit	din	day	nit	ರಹಿಗ
109	HHZ	B	3	Ø	*	*	*	8	0	0	6	6	0	0	8	6
1	GHz	1 15	19	12		*	*	9	7	8	2 a	15	18	11	7	9
3	GHz	16	11	14	3	ŧ	-5	11	8	9	_23	18	28	14	ð	11
ε	GHZ	25	28	23	*	+	*	15	11	13	31	27	29	29	23	26
10	GHz	į 42	39	41	+	*	*	25	29	22	44	43	43	59	54	55
28	GHz	54	53	54	*	*	•	35	32	33	53	54	53	75	73	?4

SURFACE BASED DUCT SURBARY:

PARPHETER	YEAR	EV.	J	FH-M	1R	H.	R-J	ŲΚ	Ji	JL-SI	ĔΡ	Ö	CT-DI	EC
	dzy ni	t din	day	nit	dtn	Cay	nit	dŁn	day	nit	dŧn	day	nit	dan
Percent occurrence	1	1 1	1 0	. 3	- 6	1	1	1	1	5	2	1	6	
AVG thickness Kft		.33	}		*	t		.23	ŀ		.58	l		. 19
AVG trap freq GHz		1.3	1		•	1		1.5	ļ.		1.1			1.2
AVS lyn grd -H/Kft		205	i		ŧ	ļ		251	i		147			215

ELEVATED DUCT SUMMARY:

PARAMETER	77	ARL	Y	J	AN-X	R.	P.	R-JI	JH	JI	JL-51	F	Ç	CT-D	EC -
	day	nit	dan	day	nit	ವ ಹಿಗ	day	ait	din	day	211	ರಕ್ಕ	day	nit	din
Percent occurrence	3	4	3	,	1	1	3	-6	- 5	7	8	8	1	:	1
AVG top ht Aft	ſ		4.5	1		4. 3	}		4.0	l		3.3			5.9
AVG thickness Kft	L		. 27	<u>. </u>		.19	<u> </u>		.28			.38	Ĺ		.22
AVG trap free GHz			1.2	1		2.2			.74			.76			.91
AVG lyr grd -N/Kft			35	l		54			57	ì		54	l		69
AVG for base Kft			4.2	- -		4.8	Ī		3.7	l		3.3	ļ		5.7

EVAPORATION DUCT HIS/OGRAM IN PERCENT OCCURRENCE:

PERCE	HT	OCC	UPRENCE	71	PRL	i	J	311-111	-R	i A:	R-31	JH	Ţţ	JL-SE	P	00	T-DE	EC
				day	nit	di n	day	nit	dån	day	nit	den	day	nit	ปลก	Say	nit	d\$ 1
0	10	10	Fees	31	30	3€	23	24	24	56	48	49	38	33	36	12	12	12
10	t o	28	Feet	17	28	19	31	32	32	16	28	18	10	14	12	13	14	14
20	10	38	Fret	14	16	15	3.5	23	53	10	12	11	9	11	10	16	19	18
30	30	40	Feet	2.1	11	11	11	12	12	7	E	7	?	4	ਖ	16	17	17
48	t o	58	Feet	7	6	7	6	3	4	3	3	3	5	7	5	13	13	13
58_	40	66	Feet	_ 4	4	4	_ 2	3	2	i. 2.	1_	2	4	4	4	8	7	٤
68	10	78	Féet	2	2	2	1	9	1	1	1	1	3	3	3	5	4	_
70	10	89	Feet	2	1	1	8	¥	G	1	8	1	2	2	2	3	3	3
89	to	98	Feet	1	1	1	9	_ 2	e	1	8		_ 1	1	1	2	1	4
98	50	130	Czet	1	0	£	0	~:	72	1	9	1	1	e	1		1	
200	ve	108	Feet	11	8	9	1	2	ž	9	7	8	20	15	17	10	7	9
Hean	•	e i ch	t Feet	35	34	36	26	₹2	24	28	25	26	53	45	49	48	41	49

PARAMETER	YEARLY	Jan-HPR	APR-JUN	JUL-SEP	OCT-DEC
L	day nit dan	day nit dan	day nit dtn	day nit dan	day nit dan
% occur El 1SB dets	9	Э	9	é	ប
% occur 2+ EL dcts	8	8	e	1	0
RYS station H	322	318	322	344	313
AVG station -N/Kft	12	11	12	14	11
AVG sfc usnd Fis	15 15 15	20 20 28	14 13 14	:2 12	17 16 16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 45 01 N 136 40 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 31909 45 01 N 136 40 E

Radiosonde station height: 66 Feet

Surface obs source: MS167 45 00 N 135 00 E

DEDICAL ACCUPATION OF FUNDAMEN SUPPRICE-TA-SUPPRICE DATABASEM FOR DANGES

PERCENT OCCURRENCE	OF F	NHRIT	CFB .	SURF	HLE-	10-2	UNFR	CE_R	HUHR.	ESM	'COM	RHIII	JE5:		
FREQUENCY	Y	EARL'	Y	J	AH-H	RR	A	PR-JI	N	31	UL-S	ΕP	00	CT-DE	EC
l	day	nts	din	day	nit.	den	day	nit	din	day	nit	din	day	nit	d&n
199 MHz	1	i	1	8	6	- 8	Ī	i	1	1	1	1	0	0	0
1 GH2	14	9	12	2	4	3	20	13	16	25	16	20	10	4	7
3 GHz	17	12	14	3	4	4	22	16	19	30	_ 21	25	14	_ 6	10
6 GHz	27	21	24	6	5	6	28	2:	24	42	33	37	34	27	30
10 GHz	47	43	45	24	22	23	38	35	37	j 5 9	52	\$5	68	€3	65
20 GHz	65	64	65	52	58	55	51	47	49	72	66	€9	86	85	86

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY	JAN-HAR	APR-JUN	JJL-SEP	OCT-DEC
<u> </u>	day nit dan	day nit din	day nit den	day nit dan	day nit dtn
Percert occurrence	5 4 5	1 1 1	7 5 6	11 9 10	2 2 2
AVG thickness Kft	.28	.21	.28	.25	.14
AYG trap freq GHz	1.6	.92	1.0	1.6	2.5
AVG for and -N/Kft	134	120	196	168	212

ELEVATED DUCT SUMMARY:

ELEVATED DUCT SUMMA	?Υ:													
PARAMETER	YEARLY	1	Jf	34-H	AR	AI	PR→JI	UH	J1	JL-SI	EP	00	T-D	EC
	day not d	<u> in l</u>	day	nit	d&n	day	111 %	ರಕ್ಟ	day	Te 1 1	<u> </u>	day	nit	din
Percent occurrence	3 3	3	1	0	1	4	6	- 5	5	-5	6	1	1	1
AVG top ht Kft	3	. 5			4.6	ı		2.3	Ì		4.7	}		2.2
AYG thickness Kft		25			.08	L		. 42	l		. 46		_	.20
AVG trap freq GHz	1	.35			3.3	1		.33			.33			1.5
RVG lyr grd -H/Kft		54			56			64	ŀ		63]		61
AVG lyr base Kft	3	3			4.5			2.6			4.4			2.1

vaporation bust Histogram in Percer Gccurrence:

EAHLONALION T	18: K12	1.00	KHT :	IN P	- × LE	וני	UP	ENU	: : <u> </u>							
PEPCENT OCCU	PRENCE	Y	ERRLY	1	J	Fire-ME	38	i Ai	S-11	UH	J,	UL-5	EP	00	T-DE	C
	1	day	n11	den	day	£15	din	day	nit	ರಹಿಣ	day	nit	den	dau	nit	CLn
8 10 18	Fest	26	19	20	28	lâ	18	3\$	35	35	28	21	21	6	5	- 5
10 10 20	Fret	16	18	17	27	27	27	17	20	19	11	16	13	ب	10	9
20 10 30	Feet !	19	22	28	29	36	33	14	12	13	14	15	15	19	23	21
30 to 40	Fee:	14	14	14	15	15	15	7	10	9	10	19	10	21	20	21
49 to 50	Feet	7	8	7	2	2	2	3	4	4	8	16	9	13	16	14
59 10 68	Feet	5	5	3	1			2	2	2	_ 5	_4	5	10	12	_11
60 10 70	Feet	3	3	3	1	1	1	2	2	2	4	5	5	7	6	8
79 to 88	Feet	2	2	2	1	9	1	2	1	1	3	3	3	3	3	3
88 15 98	Feet	1	_ 1	_ 1	8	. 0		1	1		2	3	2	3	1	2
90 to 100	FRET !	1	3	1	8	8	Θ	1	1	1	2	1	1	1	Ð	1
460ve 168	seet f	12	7	10	2	4	3	17	11	14	20	12	16	9	3	6
Bean height	Feet	45	2-	41	24	25	25	46	36	41	59	46	53	51	41	46

GENERAL RETEDENDO SUMMARY

PARAMETER	"ERPL"	JAH-HAR	APR-JUN	JUL-SEP	OCT-DEC
	क्षांक क्या व्यक्त	day niz dên	day not den	day nit dan	day nit den
Toccur ELESS arts	9	9	a	θ	υ
" orcur 2+ EL acas	9	9	9	8	Ð
FVG station H	319	308	319	340	510
AVG SLATTON -NEKFT	12	11	12	13	11
HVG ste wind KTS	_4 14 14	17 17 17	11 12 12	21 11 11	15 13 15

43 07 H 131 54 E (*) INDICATES INSUFFICIENT DATA Specified location:

Radiosonde source : 31960 43 07 H 131 54 E Radiosonde station height: 262 Feet Surface obs source: MS167 45 00 N 135 00 E

PEPCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR (ESM/COM RANGES:

_	FREQUENCY	Y	EARL	Y	31	AN-M	AR	A	PR-J	Utt	Ji	JL-S	ΕP	G	CT-DI	EC
		day	nit	dån	day	nit	dan	day	nit	din	day	nit	din	day	nit	68.5
ŗ	100 MHz	0	9	8	В	8	е	0	9	0	1		1	0	9	0
1	1 GHz	13	8	11	2	4	3	18	12	15	22	14	18	19	4	7
L_	3 GHz	16	13	13	3	4	3	28	15	17	26	18	22	14	7	11_
Г	6 GHz	26	58	23	5	4	- 5	25	28	23	38	38	34	35	28	3 !
1	10 GHz	46	42	44	23	21	22	36	34	35	56	50	23	68	63	66
L	20 GH:	64	€3	64	52	58	55	58	46	48	76	64	67	86	85	85

CUREACE BACER BUCK CHRYODY

PARAMETER	Y	EPRL	r	J	AN-M	AR	fil.	R-J	JH.	31	JL-SI	Ģ	e	CT-D	EC
	day	การ	d&n	day	nit	dir	day	nit	dan	day	nit	d2n	day	sit	aŁn
Percent occurrence	3	3	3	8	8	8	3	3	3	5	5	5	4	4	4
AVS thickness Kft	l		.21	ł		. 10	ŀ		. 27	l		.33			.14
AVG trap freq GHz			3.5	l		8.5	ł		1.0			1.6	l		2.8
AYG lun gnd -NrKft			140	1		*			155	1		148	l		124

ELEVATED DUCT SUMMARY:

PARAMETER	Ý	ERRL	Y	J	BN-MA	38	Al	-R-J	يزز	3	JL-SI	EP _	1 0	T-D	ΕĊ
	day	nit	din	day	nit	dan	day	nit	dŁn	day	nit	din	day	nit	dan
Percent occurrence	2	2	2	0	ΰ	9	2	4	3	3	4	4	1	1	1
AVG top ht Kft			10	ļ		39	t		3.3			5.7	Ì		1.3
AVG thickness Kft			.26	l		.17	1		.31	i *		.37	Į.		.18
AVG trap freq GHz			1.3			1.3			1.2			1.3			1.5
RYG lyr grd -N/Kft			73	1		65	l		68	l		58	Į.		161
AVG lyr base Kft			18	l		39	Ι.		3.1	1		5.4	ł		1.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT C	CCURRENCE	Y	EARL	4	J	RH-M	AR.	R!	11-R	UIł	31	JL-Si	EP -	0	7-01	EC
		day	nit	din	day	nit	din	day	nit	<u>ಚ</u> ್ಚು	da	nit	din	day	nit	dan
0 to 1	0 Feet	20	19	20	28	16	18	35	35	35	26	21	21	6	5	- 5
10 to 2	O Feet	16	18	17	27	27	27	17	20	19	11	16	13	ç	:8	9
20 10 3	0 Feet	19	22	20	29	36	33	14	12	13	2.4	15	15	15	23	21
30 to 4	0 Feet	14	14	14	15	15	15	7	10	9	íC	10	10	21	26	21
40 to 5	8 Feet	7	8	7	2	2	2	3	4	4	8	19	9	:3	16	14
50 to 6	8 Feet	_ 5	5	5	1_1	- 8	_ 8	2	2	2	5	4	S	10	12	11
60 10 7	O Feet	3	3	3	ī	1	1	2	2	- 2	1	5	5	7	5	á
70 to 8	0 Feet	2	2	2	1	8	1	2	1	1	3	3	3	3	3	3
80 to 9	Ú Feet	1	_ 1	1	0	- 6	3	1	1	3	_ 2	3	_2	3	1	2
98 to 1	00 Feet	1	G	1	8	8	0	1	i	1	2	1	ī	1	9	- ī
above 1	00 Feet	12	7	19	2	4	3	17	1;	14	20	12	16	9	3	6
Hean her	ght Feet	45	37	41	24	25	25	46	36	41	59	46	53	51	41	46

PARAKETEP	YEA	SEY.	1 1	811-1	AP.	P.F	?R-J(JH	J	ルータ!	EP -	01	CT-D!	EC
	day n	t dt	day	nit	ರತಿಗ	dau	nit	dan	Cav	nit	din	SAY	nit	d&n
% occur ELESE dets			7		9			0		-	9	,		3
% occur 2+ EL dcts		•)		6	į		0			€:	ł		3
AYG station N		320) [398	į		319			344	i		310
AVG station -H/Kft		12	:		11	}		:2			14	l		11
AVG sec used Fts	14	14 1-	1 17	17	17	1 2 2	12	12	12	11	11	15	15	:5

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 40 39 N 49 58 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 37860 40 39 N 49 58 E

Radiozonde station height: 95 Feet

Surface obs source: MS177 45 88 M 35 88 E

PEDCENT ACCURRANCE OF ENHANCED SUBFACE-IG-SURFACE RADAR/ESN/COM RAUGES:

PERCENT OCCURRENCE	UF E	<u>инни</u>	CER :	SUKE	HCF-	10-5	UKFH	CE K	HUHR	/ESR	/ LUn	PHNI	<u>. 25:</u>		
FREQUENCY	Y	EARL	Ÿ	3	ви-н	AR	A	PR-J	UH _	J	UL-SI	Ē۶	- 6	CT-PI	EC
	day	nit	din	day	nit	d£n	day	nit	d&n	day	nit	d&n	day	nie	28 /:
160 filz	2	2	2	1	1	1	1	2	1	4	4	4	2	3	2
1 GHz	22	19	28	11	10	11	19	21	29	44	29	36	13	16	15
3 GHz	26	24	_ 25	13	13	13	23	26	24	54	37	45	16	20	18
6 GHz	58	37	38	18	18	18	38	36	- 33	7:	61	66	31	34	32
10 GH2	68	61	61	38	41	48	48	57	52	93	85	87	63	ક્હે	53
20 GHz	76	77	76	59	63	61	67	71	€9	95	93	94	83	79	81

SUPERCE RESCR DUCT SUMMARY:

	SCHIIIK I.				
PARAMETER	YERRLY	JAN-MAP	APR - JUH	JUL-SEP	OCT-DEC
L	day nit don	day nie den	day nit den	day nit dan	day nit dan
Percent occurrence	12 15 14	5 5 6	7 16 12	28 27 28	7 13 10
AVG thickness Kft	.29	.22	, 23	.23	.15
AVG trap freq GHZ	.75	.66	1-2	.94	.34
AVG lyr grd -N/Kft	155	208	134	128	149

ELEVATED DUCT SUBMARY:

EFEAULED DOCT SOLVIUM	K														
PARAMETER	YE	ARLY	•	J:	9H-H	RR	Al	PR-J	UH_	31	JL-S!	93	01	CT-DI	EC
	day	nít	din	day	nit	d&:\	day	nit	dan	yat	<u> 111</u>	din	VAL	nit	din
Percent occurrence	5	- 8	6	3	5	4	2	7	5	8	14	11	6	6	6
AVG top ht Kft	Į		2.R			2.3	ļ		1.0	į		3.6			1.0
AVG thickness Kft	Í		.48			.42	Ĺ		.27			.52	L		.41
AVG trap freq SHz			.67			.59	1		1.3			, 36			.28
AVG lyr grd -N/Kft	i		75	l		83	l		65			67	l		83
AVG for base Kft			1.8	Ĺ		2.1	Ĺ		.87			3.2			.82

EVAPOPATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

CAULAL	TCH	DOC: UT:	21001	THE .	LR P	CRUE	11 0	<u> </u>	KENLE								
PERCENT	000	URREHCE	Ϋ́I	ARL'	7	J1	H-KS	R	Ri	2R-↓I	JH	31	UL-SI	P	90	T-DE	C
{			day	nit	dłn	day	nit	din	day	1.12	den	day	រាព	dan	day	Mit_	ಡಕಾಗ
010	10	Feet	12	13	13	18	19	19	18	19	19	3	6	5	8	10	9
10 20	20	Feet	14	14	14	24	22	23	16	16	:7	4	5	4	18	15	12
20 to	36	Feel	17	18	17	22	22	22	20	17	18	7	10	9	19	22	:3
30 €0	40	Feet	14	15	15	16	16	16	12	11	11	10	14	12	19	20	_; <i>;</i> _
40 50	50	Fezt	11	11	11	5	7	6	?	12	3	14	16	15	18	10	14
59 50	60	Fest	7	8	ક	2	_3	3	5	6	3	_13	14	13	16	9	9
60 to	78	Feet	3	5	4	1	2	2	2	2	2	- 5	10	8	4	4	4
70 10	89	feet	2	3	2	1	0	1	1	2	2	3	5	4	2	3	3
80 to	90	Feet	2	1	2	e	1	1	1	1	1	4	2	3	1	1	1
98 to	100	Feet	1	1	1	1	ī	1	1	1	1	3	ï	2	Ø	1	ı
above	160	Feet	17	11	14	8	7	8	17	15	16	34	17	25	8	7	7
Hean h	e i gh	it Feet	5€	47	52	35	35	35	51	49	49	92	€5	79	46	41	44

PARAMETER	YEARL	Y	JA	H-MA	Ŕ	AF	P-Jt	NI.	31	اد-S1	ΕP	00	T-Di	ĒΣ
	day nit	ďån	day	nit (d&n	day	nit	dan	day	מות.	den	dav	fit t	din
% octur EL&SB dcts		2			Θ			1			4			1
% occur 2+ EL dcts		9	1		0			8			2			e
AVG station N		334	ĺ	;	320			334			350			330
AVG station -N/Aft		14	ļ		12			14			17	i		14
RVG sfc wind Kts	13 13	13	14	15	15	12	12	12	:1	10	11	13	13	13

Specified location:

47 01 H 51 51 E Radiosonde source : 38760 47 01 N 51 51 E (+) INDICATES INSUFFICIENT DATA

FadiosonJe station height: -325 Feet

Surface obs source: MS177 45 00 N 35 00 E

PEPCENT OCCUPRENCE	OF E	KHAN	CED 1	SUPF	HCE.	10-31	12FA	CE RI	ABAR	ESM	COM	Sen	GES:	_	
FREQUENCY	Y	CARL	Y	J	311-H	AR	AI	PR-31	JH	.1.	JL-31	P	0	CT-DI	EC
	day	กาเ	den	day	nit	din	day	nit	din	day	niz	dan	day	nit	dan
100 NHz	e	1		0	- 6	8:	9	1	<u>;</u>	1	2	1	0	8	0
1 GH=	17	14	16	١ 8	\$	8	17	19	18	35	23	29	8	8	8
3 GHZ	1 21	_ : 3	19	9	9	_9	:9	23	21	43	_29	36	18	16	10
6 CH=	33	35	32	34	.5	35	2/	33	39	54	55	68	26	25	26
16 GH_	57	58	58	35	39	37	46	54	50	27	83	85	63	55	59
20 GHz	74	- 75	74	57	61	5)	65	69	67	6.3	92	93	92	77	7.3

SOME ACE BURED DOC! S	Unnat	77:													
PARAKETES	YER	IRL'	ÿ —	Jf	in-ni	ละ	អា	<u>γ-ν</u>	JH	3	<u> </u>	P	Ü	CT-D	EC
	₫2° 1	٠,	den	day	112	den	GAV	23.5	d£n	day	nit	dan	day	nit	dan
Percent occurrence	2	6	4	1	1	2	1	9	5	4	13	8	Ø		-:
RYG shickness Kft			*	l		*			*	ĺ		4			-
AVG trap freq GHz			1.1	l		2.4	l		. 61	•		.57	•		.82
AVG lor and -H-Kft			145	[245	ĺ		103			169			122

PAKAMETER	71	EHAL	`	J	FH-11	AR	A	PK. J	JN	7	JL- Si	ΕP	0	CT-D	EC
	dav	nts.	ರ೬n	day	nit	ರಕ್ಷಿಗ	day	911	d&n	day	211	dan	da	nit	ditn
Percent occurrence	2	€	4	72	2	2	1	6	4	2	5	4	3	9	ε
AVG top ht Kft			•	ĺ		4	İ		•	i		*	1		•
AVG thickness Kit	_		. 33	_		.25		_	, 42	ļ		. 35			. 30
AVG trap freq GHE			.46			.69			.28			.36			.51
AVG lyr grd -N/kft			59	İ		74			78	1		63			62
AVG lyr base Kft	!		*	1		*	i		*	!		+	ł		•

PERCEN	7	OCCL	JRRENCE	71	ARL	1	J	AH-H	R.R	P.F	-R-J	אנ	3.	JL-SE	P	Ö	T-DE	ĒČ
				day	nit	din	cay	n:12	den	day	nit	dtn	day	សា។	d&n	day	กาะ	da n
8 1	0	18	Feet	12	13	13	13	19	19	18	10	18	3	ó	5	8	19	- ;
10 t	٥	2¢	Feet	14	: 3	14	24	22	23	18	16	17	4	5	4	19	15	12
20 t	٥_	30	Feet	17	18	17	22	22	22	20	17	18	7	19	9	19	22	29
30 t	0	48	Feet	14	15	15	16	16	16	12	11	11	10	14	12	19	20	19
40 1	٥	50	Feet	11	11	22	3	7	6	7	12	9	14	:6	15	18	10	14
50 t	٥_	60	Feet	7	8	_ 8	2	. 3	_ 3:	5	6	5	13	14	13	10	è	9
60 t	٥	78	Feet	3	5	4	1	2	2	2	2	2	5	18	8	1	4	4
79 t	e i	80	Feet	2	3	2	1	Ð	1	1	2	2	3	5	4	2	3	3
80 t	0	98	Feet	2	_ 1	_ 2	0	1	1	1_	. 1	1	4	2	3	1	1	1
90 t	•	100	Feet	1	1	1	1	1	1	1	1	:	3	1	2	9	1	ī
abov	ŧ	100	Feet	17	11	14	8	7	8	17	15	16	34	17	25	8	7	7
Mean	he	1 gt.s	Feet	56	47	52	35	35	35	5:	48	49	92	65	79	46	41	- 1

PARANETEP	YEARLY	JAN-HAR	RPR-JUH	JUL-SEF	OLT-DEC
	day nit dan	day nit dan	day nit din	day nit dan	day nit d'r
% occur EL&SB dcts	8	9	9	0	9
% occur 2+ EL dets	8	0	9	છ	9
AVG station H	314	316	311	314	316
AVG station -H/Eft	11	12	11	11	12
AVG aft wind his	13 13 13	14 15 15	12 12 12	11 10 11	13 13 13

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 40 01 N 52 58 E (*) INDICATES INSUFFICIENT DFTA Radiosonde source: 38507 40 01 N 52 58 E

Radiosonde station height: 292 Feet Surface obs source: MS177 45 00 N 35 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR-ESM-COM RANGES:

FREQUENCY	Y	EARL	Y	J	คห-หเ	AR	A	PR-J	UH	31	JL-SI	EP	0	CT-DI	EC
	day	nit	d&n	day	nit	d&n	day	nit	dŧn	day	nit	din	day	nit	din
100 HHz	0	1	1	0	8	0	0	2	1	1	2	1	1	1	1
1 GHz	18	16	17	9	9	ð	18	20	19	35	24	38	11	11	11
3 GHz_	22	_ 28	_ 21	16	. 11	18	21	24	22	43	38	36	13	15	14
6 GH≥	34	34	34	15	17	16	28	35	31	64	56	60	29	30	
10 GHz	58	59	59	35	48	38	47	55	51	87	83	85	64	58	61
20 GHz	75	76	75	57	62	59	66	79	68	93	92	93	83	78	86

SUPPRIE BASED DUCT SUMMARY:

SUPPRIE ENSED BUCI	SURENK!				
PARAMETER	YERPLY	JAH-HAR	APR-JUH	JUL-SEP	OCT-DEC
	day nit dan	day nit dan	day n°t d&n	day nit din	day nit dan
Percent occurrence	4 10 7	2 3 3	3 12 8	4 14 9	5 10 8
AYG thickness Kft	.24	.18	.21	.44	.14
AVG trap freq GHz	.94	1.1	.81	.68	1.1
AVG lyr grd -N/Kft	170	162	156	205	155

FLEVATED DUCT SUMMARY:

ELEVATED DOCT SOUGH														
PARAMETER	YEAR	Y	J	AH-HE	R	R	<u> </u>	JH	Ji	JL-5!	EP	Q	CT-DE	EC
	day ni	dtn.	day	ni*	dŧn	day	nit	d&n	day	nit	den	day	nit	dan
Percent occurrence	4 .	1 4	1	1	1	3	4	4	6	3	7	5	3	4
AVG top ht Kft		3.7	i		4.2	l		4.3	l		3.5			2.6
AVG thickness Kft		48	İ		.37			. 36	!		.52	<u> </u>		.36
AVG trap freq GHz		. 54	1		.65			.66			.37			.47.
AVG lyr grd -N/Kft		65	}		76	l		64	!		66			58
AVG lyr base Kft		_3.4	<u> </u>		4.6			4.1	i		3.1		_	2.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCI	IRRENCE	Y	EARL	·—–	Ji	H-M	R.R	A	1 <u>-34</u>	ยห	J	JL-EE	P	0	CŤ-DI	<u> </u>
L			day	nit	den	day	nit	dån	day	nit	din	day	nit	dên	dav	nit	den
G to	10	Feet	12	13	13	18	19	19	18	19	18	3	- 6	5	8	19	9
10 to	29	Feet	14	14	14	24	22	23	18	16	17	4	5	4	10	15	1.2
28 10	30	Feet	17	18	17	22	22	22	79	17	18	7	10	9	19	22	20
30 to	48	Feet	14	15	15	16	15	16	12	11	11	10	14	12	19	20	19
40 10	50	Feet	11	: 1	11	5	7	6	7	12	9	14	16	15	18	10	14
50 10	60_	Feet	7	. 8	8	2	3	3	5	6	5	13	14	13	10	9	. 9
68 to	70	Fezz	\$	5	4	1	2	3	2	2	2	5	10	\$	4	4	4
78 to	86	Feet	2	3	2	1	9	1	1	2	2	3	5	4	2	3	3
_ 88 10	98_	Feet	2	. 1	2	8	1	1	1	1	1	4	2	3	1	1	1
90 to	100	Feet	:	1	1	1	1	1		1	1	3	1	Σ	ě	1	- ₁ -
above	169	Feet	17	11	14	8	7	8	17	15	16	34	17	25	8	7	7
Mean he	right	Feer	56	47	52	35	35	35	51	48	49	92	65	79	46	41	4+

90	HERRIT SIE LECKOFORS	- 0:111	mr .													
Г	PARAHETEP		ARLI			H-H			R-J			UL-5!			, T - DE	
L		day	nit	d£n	day	nit	dian	day	nit	din	day	nit	den	day	nit	atn
13	occur ELSE dets			. 0			0			Ø			9			8
13	occur 2+ EL dass	1		£	ĺ		6	l		8			8	{		ø
F	IVG station H	1		316	l		312	l		318			318	1		314
į e	VG station -N/Kft	Í		12			12	[:3			12	ĺ		12
LF	VG sfc wind Fts	13	13	13	14	15	15	12	12	12	11	រប	_11	13	13	13

Specified location:

45 16 H 48 01 E

(*) INDICATES INSUFFICIENT DATA

Radiosonde source : 34980 46 16 N 48 01 E Radiosonde station height: -325 Feet Surface obs source: MS177 45 00 H 35 00 E

DEDCENT OCCUPRENCE OF EMPONED SUPERIE-TO-SUPERIE RATAR/FSM COM RANGES:

PERCENT OCCUPATION	יש עו	MHHM	LEN	うひゃとり	MLE-	10-21	ותרחונ		JP-LIE	E 21.		BILLING	<u>,,,,</u>		
FREQUENCY	Y	ERRL'	Y	J	A:I-M	AR.	A	PR-JI	JЙ	J	JL-\$1	P	00	CT-DE	EC
	day	nıt	đ&n	day	nit	d&n	day	nit	dan	day	nit	din	day	nit	dtn
100 HHz	В	2	1	8	8	9	8	2	1	9	3	2	0	1	1
1 GHz	17	16	17	8	7	8	18	21	19	34	27	31	9	18	10
3 GHz	21	28	20	9	9	9	28	25	_ 23	42	32	37	11	13	12
6 GHz	33	34	33	14	15	14	27	35	31	63	58	60	27	28	27
10 GHz	58	59	58	35	38	37	46	56	51	85	83	85	63	57	68
20 GHz	74	75	75	57	61	59	66	79	68	93	92	_93	82	77	88

SURFACE BASED DUCT :	SUMMA	RY:					_								
PARAMETER	YE	ARL	7	J	RN-MI	RR	RI	PR-J	אט	J	UL-SI	EP	Ō	CT-D	EC
	day	nit	dan	day	nit	d&n	day	nit	dån	day	nit	d&n	day	nit	dan
Percent occurrence	ī	9	5	1	9	1	2	12	7	1	16	9	1	6	4
AVG thickness Kft	i		•	l		*	l		4			*	ĺ		+
AVG trap freq GHz	ł		1.0	1		2.5	Ì		. 57	l		.38	1		. 51
RVG lyr and -N/Kft	ļ		174			297	1		155	L		122	<u> </u>		121

CI CUATED DUCT CHMMADY

FARAMETER	Y	ERRL'	<u> </u>	JI	RH-M	RR	A1	PR-J	SH	J	JL-SI	EP	01	CT-DI	EC
	day	716	d&n	day	nıt	d i n	day	nit	ರ ಹಿಣ	day	การ	ರೆಕಾ	day	nit	d2n
Percent occurrence	3	10	7	2	4	3		10	5	4	15	18	6	10	8
AVS top ht Kft			*	[>	ì		÷			*			*
AVG thickness Kft	1		.36	ı		. 26	L		.37	İ		.47			.33
MYG trap freq GHz			.53			. 59			.69	Г		.36			. 49
AVG lun and -N/Kft	İ		61	l		65			58	1		56			66
AVG lyr base Kft	l		Ŧ	ł		*	1		*	Į .		*			*

FUAPGRATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENC	EY	EARL	<u>`</u>	J	AN-M	AR	AF	R-JI	JH	JI	UL-SI	EΡ	Q1	T-DE	EC
	day	nit	atn	day	nit	dan	day	nit	d&n	day	nit	din	day	nit	dian
0 to 10 Feet	12	13	13	18	19	19	18	19	18	3	6	5	3	19	9
10 to 20 Feet	14	14	14	24	22	23	18	16	17	4	5	4	10	15	12
28 to 38 Feet	17	18	17	22	22	22	20	17	18	7	10	- 9	19	22	28
30 to 40 Feet	14	15	15	16	16	16	12	11	11	10	14	12	15	20	19
40 to 50 Feet	11	11	11	5	7	6	7	12	9	14	16	15	18	10	14
50 to 60 Feet		, 8	8	2	3	3	5	6	5	13	14	13	18	9	9_
60 to 70 Feet	7 3	5	4	1	2	2	2	2	2	5	16	8	4	4	4
70 to 80 Feet	2	3	2	1	9	1	1	2	2	3	5	4	2	3	3
88 to 98 Feet	1 2	1	2	_ 0	1	. 1	1 1	1	1	+	2	3	1	1	. 1
90 to 100 Feet	T 1	. 1	1	1	1	1	1	1	_ 1	3	1	2	1 ~	1	1
above 100 Feet	17	11	14	8	7	8	17	15	16	34	17	25	8	7	7
Hean height Feet	56	47	52	35	35	35	51	48	49	92	<u> 65</u>	79	<u> 48</u>	41	44

CENERAL METEROPOLOGY SHMMARY.

PARAMETER	71	EARL'	Y	J	AH-H	RR	R	R-J	υN	Ji	ひレーら!	EP !	91	.T~PE	EC.
_	day	1111	dan	day	nit	dån	day	nıt	den	day	nit	ರಹಿಗ	Can	nit	CEn
% occur ELESE dets			0			0			8			3	ĺ		Ü
% occur 2+ EL dcts	1		8	l		6			0	1		0	1		3
AVG station H	l		321			316	l		322	i		327			319
AVG station -H/Kft			12	,		12	1		12	l		13	1		12
AVG sfc wind Fis	13	13	13	14	15	15	12	12	12	11	10	11	13	13	. 3

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

(*) INDICATES INSUFFICIENT DATA Specified location: 42 52 N 41 97 E

Radiosonde source : 37260 42 52 N 41 87 E Radiosonde station height: 387 Feet

Surface obs source: MS177 45 00 N 35 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	Y	EARL'	Y	J 1	AN-M	AR	RI	PR-J	UH	JI	JL-SI	Р	G	T-DE	C
	day	nit	dan	day	nis	dan	day	nit	dan	day	nit	d&n	day	nit	d\$n
100 HHz	8	0	8	0	6	- 8	9	9	0	8	8	0	1	1	1
1 GHz	18	12	15	8	8	8	18	15	16	74	18	26	11	9	10
3 GHz	22	15	19	19	18	10	20	17	19	42	_22	32	14	13	14
6 GHz	34	31	32	14	15	15	28	28	28	63	51	57	30	28	29
10 GHz	58	57	57	35	39	37	46	56	48	86	81	84	65	57	61
20 GHz	75	74	74	57	61	59	66	€?	66	93	91	92	83	78	ಕಿಶ

SURFACE BASED DUCT SUMMARY:

DOM NOE DINGED DOCK															
PARAMETER	YE	ARL'	Y	J	H-KA	AR	A!	-R-JI	UH	3	JL-8	EP _	0	CT-D	EC
L	day	nit	din	day	nit	dan	day	nit	d&n	day	nit	din	day	nit	deri
Percent occurrence	4	3	3	1		1	3	1	2	2	3	3	8	7	8
AVG Shickness Kft	j		.28	ĺ		. 15			.16			.66	ĺ		.14
AVG trap freq GHz	i		1.5	ĺ		.84			1.7	i		1.7	l		1.6
NVG lyr grd -N/Kft	<u> </u>		199	L		268			269			182			155

FLEVATED BUCT SUBMARY:

FARAMETER	YE	ARL'	Y .	31	าห-ส	AR T	AF	R-JI	ИL	J!	JL-SI	EP	00	CT-DI	EC
	day	nit	d&n	day	nit	d&n	day	nis	dan	Cay	nit	din	day	nit	ರಹಿಣ
Percent occurrence	1	1	1	Ø	1	1	8	0	8	2	2	2	1	1	1
BVG top ht Kft	1		2.6	l		.77	[2.8	ļ		5.1	1		2.8
AVG thickness Kft			.57			.36			.68			.49	ĺ		.\$5
AVG trap freq GHz			.29			. 55			.11			.32			.19
AVG lyr grd -N/Kft			76	l		89	ł		69			62	1		85
RYG lyr base Kft			2.3			.60	l		2.2	l		4.7	1		1.7

EUGRAGOTIAN BUCT LICTATION IN DERCENT ACCURRENCE.

EANLOWN: TON DO	CI MISI	UUKRIII	111 5	<u> EFCE</u>	* 1 0	, CUKI	CHUE	·							
PERCENT CCCUR	RENCE	YERRI	.Y	J	AH-HI	PR	RF	R-JI	JN -	31	JL-58	P	- 00	T-DE	C
		ay nit	dan	day	nit	din	day	nit	d&n	day	nit	df n	day	nit	CEn
8 to 10 F	eet	12 13	13	18	19	19	18	19	18	3	- 6	5	8	10	9
10 to 20 Fe	eet	14 14	14	24	22	23	18	16	17	4	5	4	10	15	12
20 to 30 F	261	17 18	17	22	22	22	28	17	18	7	10	_ 9	19	_22	_28
30 to 40 F	eet	14 15	15	16	16	16	12	11	11	19	14	12	19	28	13
40 to 50 F	vet	11 13	11	5	7	6	7	12	9	14	16	15	18	10	14
50 to 60 Fe	eet	7 8	8 8	2	3	3	5	6	5	13	14	13	10	9	9
60 to 70 F	eet	3	4	1	- 2	5	2	2	2	5	13	8	1 4	4	4
78 to 98 F	eet	2 :	3 2	1	6	1	1	2	2	3	5	4	2	3	3
88 to 98 Fe	eet	2 1	2	6	1	_1	1_	1	1	4	2	_ 3	_ 1	_ 1	. 1
90 to 100 Fe	eet	1 :	1	1	1	1	1	1	1	3	1	2	8	1	:
above 188 Fe	eet	17 11	14	8	7	8	17	15	16	34	17	25	8	7	7
Hean height l	Feet	56 47	52	35	35	35	51	48	49	92	65	79	46	41	44

PARAMETER	YEARLY	JAH-HAR	APR-JJN	JUL-SEP	OCT-DEC
	day nit dan	day nit dan	day nit din	day nit dan	day nit don
% occur EL&SB dcts	9	9	9	0	9
% occur 2+ EL dcts	8	8	8	9	e
AVG station N	327	311	330	347	319
AYG station -N/Kft	13	12	14	15	12
AVG sfc wind Kts	13 13 13	14 15 15	12 12 12	11 16 11	13 13 13

(*) INDICATES INSUFFICIENT DATA

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Specified location: Radiosonde source : 37484 41 39 H 41 37 E

20 Feet Radiosonde station height: Surface obs source: NS177 45 80 N 35 88 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

COCEMI DECOMPLIES	<u> </u>														
FREQUENCY	Y	EARL	Y	J	AN-M	AR .	RF	F-JU	JH .	JL	IL-SE	P	00	CT-DE	EC
	day	nıt	dan	day	nit	d&n	day	nit	d&n	day	nit	dan	day	nit	d&n
100 MHz	1	0		+	*	Ŧ	8	0	0	1	9	1	*	*	*
1 GHz	27	16	22	*	*	*	17	15	16	37	18	27	*	*	*
3 GHz	32	28	26	*	*	*	28	17	18	44	22	33	*	*	*
6 GHz	46	39	43	*	*	*	27	2?	27	64	51	58	*	*	*
18 G4z	67	65	66		*	*	46	59	48	87	91	84	*	¥	*
20 GHz	88	79	79	¥	*	#	66	66	66	94	91	92	*	*	*

SUPFACE BASED DUCT :	SUMMARY:													
PARAMETER	YEARL	<u>Y</u>	J	AH-H	R R	A	PR-J	ŪН	J	JL-St	P	90	CT-DI	EC
	day nit	ರ&ಗ	day	nit	dån	day	nit	ರಹಿಗ	day	nit	dan	day	nıt	dlin
Percent occurrence	2 1	1	. 8	- 0	9	3	- 8	2	6	2	4	8	8	9
AVG thickness Kft	i	.23	l		*	1		. 16	ì		.31			*
AYG trap freq Gdz	1	2.1	ĺ		*	l		3.8	1		.44			+
AVG for and -N-Kft	1	668	ĺ		*	1		861			475	l	_	*

ELEVATED DUCT SUMMA:	?Y:													
PARAMETER	YEARL	Y	JA	H-HI	RR	AI	R-J	หย	J.	JL-SI	P	0	CT-DI	EC .
	day nit	dan	day	r. t	dŁn	day	nit	d&n	day	nit	din	Cay	nit	d٤٦
Percent occurrence	1 2		0	В	9	0	1	1	3	5	4	1	1	ī
AVG top ht Kft		6.3			*	ł		•	Ì		6.3	i		*
AVG thickness Kft		.78	L		1. i	L		. 91			.50	L		.65
AYG trap freq GHz		.22			.86			.09			- 69			.12
RVG lyr grd -N/Kft		75	ł		*	i		*	ì		75	i		*
AVG lyr base Kft _	l	5.1	<u> </u>		1.9	L		4.5			5.6	<u>L_</u>		8.0

EVAPORATION DUST HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	occu	RRENCE	ŸI	BRL	7	J	AH-M	AR	A	PR~J	UN.	J	JL-SI	EP	1 0	CT-DS	EC
			day	r, 1 t	den	day	2.12	dŁn	day	nit	d&n	day	១១៥	<u>đ</u> ån	day	nit	den
9 16	10	Feet	12	13	13	18	19	19	18	19	18	3	6	5	8	10	9
19 tc	20	Feet	14	14	14	24	22	23	18	16	17	4	5	4	10	15	12
20 10	39	Feet	17	18	17	22	22	22	29	17	18	7	10	9	19	22	28
39 to	40	Feet	14	15	15	16	16	16	12	11	11	10	14	12	19	20	19
40 to	50	Feet	11	11	11	5	7	6	7	12	9	14	16	15	18	10	14
50 0	60	Feet	?	8	8	2	3	3	5	_6	5	13	14	13	10	9	9
68 tc	78	Feet	3		4	1	2	ž	2	2	2	S	10	8	4	4	4
78 to	89	Feet	2	3	2	1	0	1	1	2	2	3	5	4	j 2	3	3
80 te	90	Feet	2	1_	2	e	1	1_	1	1	1	4	2	3	1	1	1
93 to	166	Fzet	1	1	1	1	1	i	1	1	1	3	1	2	0	1	1
above	100	Fee'	17	11	14	8	7	8	17	15	1€	34	17	25	8	?	7
Hean he	ght	Feet	56	47	52	32	35	35	51	48	49	92	65	79	46	41	44

GENERAL NETEOPOLOGY SHMMARY:

PARAMETER	YERRLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit dan	day not din	day nit din	day nit dan
% occur ELSSB dcts	0	0	0	8	0
% occur 2+ EL dets	0	8	Θ	8	0
RVG station N	283	103	337	353	332
AVG station -N/Kft	12	4.6	:4	15	14
AVG sfc wind Kts	13 13 10	14 15 15	12 12 12	11 10 11	13 13 13

HISTORICAL PROPAGATION CONDITIONS SUNMARY IREPS REV 2.1

(*) INDICATES INSUFFICIENT DATA Specified location: 46 28 N 30 37 E Radiosonde source : 33837 46 28 N 30 37 E

Ragiosonde station height: 161 Feet Surface obs source: MS177 45 00 N 35 00 E

LEKTENI OFFORKEWEF	UF E	<u>инни</u>	CEB	SUKI	HUE-	10-2	DK-HI	LE KI	HUHP	<u> </u>	700M	KHI	<u>. 23:</u>		
FREQUENCY	Y	YERRLY			JAN-MAR			APR-JUN			UL-SI	EP	OCT-DEC		
	day	nıt	d&n	day	nit	d&n	day	ni t	d&n	day	nit	dan	day	nit	dån
108 MHz	1	1	1	0	0	- 6	1	i	1	1	2	2	Ø	1	1
1 GHz	19	15	17	9	8	8	28	18	19	38	23	30	10	11	10
3 GHz	23	18	21	11	16	10	23	21	22	46	_28	37	12	14	13
6 GHz	35	33	34	16	15	15	38	32	31	66	55	60	27	29	2 3
10 GHz	59	58	58	36	39	37	48	5 3	51	88	83	85	63	58	60
28 GHz	75	75	75	58	61	59	67	69	68	94	92	93	82	78	36 j

CUREACE BACER BUCT CUMMARY.

PARAMETER	YEARL	YEARLY			JAN-MAR			RPR-JUN			Ρ	OCT-DEC		
		-												dŧn
Percent occurrence	6 7	6	3	1	2	7	7	7	10	12	11	2	7	5
AVG thickness Kft		.24			. 16			. 25			. 25			.31
AVG trap freq GHz		.86	í		1.2	ĺ		.90			.71			.58
AVG lyr grd -N/Kft		122			200			94			193	L		91

ELEVATED DUCT SUMMAN	₹Y:														
PARAHETER	YEARLY			J	JAH-MAR			RPR-JUN			UL-S	EP -	OCT-DEC		
	day	nıt	d&n	day	nit	dan	day	nit	dŧn	day	nit	dan	day	nit	d&n
Percent occurrence	1	2	1	1	1		1	2	2	1	2	- 2	-2	1	2
AVG top ht Kft			3.3	!		1.8	1		3.6			3.9	[3.7
AVG thickness Kft_			.42			.30	L		.44			.47			.48
AVG trap freq GHz		_	.69	i -		1.7	1		.31			.41			.39
AVG lyr grd -H/Kft			71			67	Į		89			59			67
AVG lyr base Kft			3.0			1.6	L		3.4			3.5	L		3.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT C	CCURRENCE	Ϋ́	EARL	7	31	AH-HI	₹R	RI	R-Ji	JN	31	UL-SI	P	86	T-DE	ī -
<u> </u>		day	nit	d&n	day	nit	d&n	day	กาะ	d&n	day	n11	d&n	day	nit	dan
0 to 1	8 Feet	12	13	13	18	19	19	18	19	18	3	- 6	5	8	10	9
10 to 2	20 Feet	14	14	14	24	22	23	18	16	17	4	5	4	19	15	12
20_to_3	30 Feet	17	18	17	22	22	22	20	17	18	_ 7	10	9	19	22	29
30 to 4	10 Feet	14	15	15	16	16	16	12	11	11	19	14	12	19	20	19
40 to 5	50 Feet	11	11	11	5	7	6	7	12	9	14	16	15	18	10	14
58 to 6	50 Feet	.7	_8	8	2	_3	_3	_5	6	5	13	14	13	10	9	9
69 to 7	70 Feet	3	5	4	ī	2	2	2	2	2	5	10	8	4	4	4
70 to 8	30 Feet	2	3	2	1	9	1	1	2	2	3	5	4	2	3	3
88 to 9	98 Feet_	5	_1	2	. 9	1	_1	_ 1	1	1	_ 4	. 2	3	1	1	1
90 to 1	100 Feet	1	1	1	1	1	1	1	1	1	3	1	2	0	1	1
above 1	100 Feet	17	11	14	8	7	8	17	15	16	34	17	25	8	7	7
Mean her	ght Feet	56	47	52	35	35	35	51	48	49	92	65	79	46	41	44

METEOROLOCU CHINACOU

CEMERAL DE LEGROLOGI	SUMMET.												
PARAMETER	YEARLY	- 1	JAN-M	R	AP	R-JI	JN	Jt	JL-51	EP"] 01	ום-ד:	EC
L	day nit d	in i	day nit	d&n	day	nit	dŁn	dav	nit	ರ೩೧	day	nit	dan
% occur EL&SB dcts		0		0	1		8			- 0	1		0
% occur 2+ EL dcts		0		0	1		9			Θ	•		9
AVG station N	3:	25		315	l		328			337	l		328
AVG station -N/Xft		13		12			14	ļ		15			12
AVG sfc wind Kts	13 13	13	14 15	15	12	12	12	11	10	11	13	13	13

Specified location:

47 15 N 39 49 E

E

(*) INDICATES INSUFFICIENT DATA

Radiosonde source : 34731 47 15 N 39 49 E

Radiosonde station height: 253 Feet

Surface obs source: MS177 45 00 N 35 00 E

PEPCENT OCCUPPENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM PANGES:

PERCENT	DICOPPENCE	Ur E	HINAIN:	CED	SURF	nue-	10-5	UKFN	LE R	nunk	E 31	CON	H H PA	uE3.		
FR	EQUERCY	Y	EARL'	Y	J	AH-MI	RR	Al	PR-JI	UN	J	UL-S	EP	l o	CT-DI	EC
L		day	nit	dan	day	ការដ	d&n	day	nit	d&n	day	nit	d&n	day	nit	dån
10	9 HHz	0	1	1	0	•	0	0	1	1	0		1	Θ	1	9
1	1 GHz	18	14	16	1 8	7	8	18	19	19	35	21	28	9	9	9
1 :	S GHz	21	18	19	9	9	9	20	23	22	43	27	35	[11	12	12
	6 GHz	33	32	33	14	15	14	28	34	31	63	54	59	27	27	27
1 10	0 GHz	58	58	58	35	38	37	46	55	51	87	82	84	63	56	58
21	9 GHz	75	75	75	57	61	59	66	78	58	93	92	93	82	77	88

SUPPORE ROSED DUCT SUMMARY.

PARAMETER		EARL		7	AN-M	36	- 00	R-JI	***	1 7	UL-SI	- D	7 00	T-P	
PRKHHEIEK			-												
L	day	การ	d&n	day	nit	den	day	nit	<u>d&n</u>	day	nit	<u>dan</u>	day	<u>nit</u>	dan
Percent occurrence	3	7	5	1	9	1	3	11	7	4	11	8	2	5	4
AVG thickness Kft	j		. 18	j		. 17	l		.19	j		.12]		.24
AVG trap freq GHz	l		1.5	i		2.7	ŀ		1.0	1		1.3	i		1.1
AVG lyr grd -N/Kft			124	<u> </u>		149			129	<u> </u>		109			109

FLEVRIED DUCT SUMMARY:

PARAMETER	YE	YEARLY day nit dan c			Ati-Ki	ar .	AF	R-JI	JH	3	JL-SI	P	00	CT-DI	EC
	day	nit	d&n	day	nit	d&n	day	nit	dŧn	day	r. i t	dan	day	nit	otn
Percent occurrence	1	2	3	1	1	1	0	1	1	2	3	3	2	1	2
AVG top ht Kft	l		3.2	l		2.3			3.3	l		4.5	l		2.7
AVG thickness Kft			.42			. 26			.70			.33	{		.39
AVG trap freq GHz			. 65			.75			.26			1.2			.41
AVG lyr grd -N/Kft			78			87			99			60	!		67
AVG lyr base Kft			2.9	_	_	2.2			3.0	!		4.2	1		2.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURREN	CE Y	EARL	Y	J	คพ-หค	AR	A	PR-JI	UN	7	UL-\$	EP	0	CT-DI	EC
	day	nit	<u>d&n</u>	day	nit	đần	day	nit	dan	day	nit	dan	day	กาเ	din
0 to 10 Feet	12	13	13	18	19	19	18	19	18	3	6	5	8	18	9
10 to 20 Feet	14	14	14	24	22	23	18	16	17	4	5	4	10	15	12
28 to 38 Feet	17	18	17	22	22	22	20	17	18	7	10	9	19	22	20
30 to 40 Feet	14	15	15	16	16	16	12	11	11	10	14	12	19	20	19
40 to 50 Feet	11	11	11	5	7	6	7	12	9	14	16	15	18	10	14
50 to 68 Feet	7	8	8	2	3	_3	5	6	5	13	14	_13	18	9	_ <u> </u>
68 to 78 Feet	3	5	4	1	2	2	2	2	2	5	10	8	4	4	4
70 to 30 Feet	2	3	2	1	9	1	1	2	2	3	5	4	2	3	3
80 to 40 Feet	_ 2	1	2	- 8	1	1	_ 1	1	_ 1	_4	2	3	1	1	1
90 to 100 Feet	1	1	1	1	1	1	1	1	1	3	1	2	8	1	1
above 100 Feet	17	11	14	8	7	8	17	15	16	34	17	25	8	7	7
<u>lean height Fee</u>	56	47	52	35	35	35	51	48	49	92	65	79	46	41	44

PARAMETER	YEARLY		31	11:-MA	ıR	AP	R-JI	JÑ	J;	JL-SE	P	00	T-DE	EC
	day nit	dtn	day	nit	děn	day	nit	dan	day	nit	dan	day	nit	dan
% occur EL&SB dcts		0			0			0			9			8
% occur 2+ EL dcts		8			8			9			9			0
AVG station N	:	319			312			321			325			317
AVG station -N/Kft		12			12			12			12	l		12
AVG sic wind Kts	13 13	13	14	15	15	12	12	12	11	19	_1:	13	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUHMARY

Specified location: 41 16 N 36 19 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 17030 41 16 N 36 19 E

Radiosonde station height: 144 Feet

Surface obs source: MS177 45 88 N 35 88 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	Y	EARL	Υ	Ji	AN-M	AR	PI	PR-JI	אנו	Ji	JL-S	EP	0	CT-DI	EC
	day	nit	d&n	day	nit	dŁn	day	nit	d&n	day	nit	dan	day	nit	dtn
100 HHz	2	0	1	6	9	0	1	1	1	ī	1	1	5	9	2
1 GH2	22	13	18	8	8	8	20	16	18	35	28	28	25	7	16
3 GHz	27	16	_22	10	18	10	24	19	22	44	26	35	32	. 9	21
6 GHz	39	31	35	15	16	16	31	30	38	64	54	59	47	25	36
10 GHz	61	57	59	35	48	38	49	52	59	87	82	84	74	55	64
20 GHz	76	74	75	57	€2	59	68	- 58	68	94	92	93	88	76	82

SURFACE BASED DUCT SUMMARY:

SOKERICE BUSED BOCK S	Olimine 1 .								_					
PARAMETER	YEARLY		7	AN-MF	R	Af	11-A	H	7	JL-SI	P	0	CT-DI	EC
	day nit	dtn	day	nit	d&n	day	nit	dan	day	nit	den	day	nit	den
Percent occurrence	13 5	9	2	3	3	8	4	6	7	11	9	33	1	17
AYG thickness Kft		.34	i		.24	ŀ		.36			.26	ŀ		.49
RVG trap freq GHz		1.5			2.1			.77			2.3	ĺ		. 81
AVG lyr grd -N/Kft		118			135			181			106			98

FLEVATED DUCT SUMMARY:

FLEANIED DOCT SOUWH	<u> </u>														
PARAMETER	YI	EARL'	<i>_</i>	JI	AN-H	AR .	AI	PR-JI	JN	31	UL-SI	EP	ő	T-DI	EC
L	day	nit	dŁn	day	nit	dtn	day	nit	d&n	day	nii	din	day	nıt	důn
Percent occurrence	6	12	Э	0	2	1	3	19	7	16	26	21	3	11	7
AVG top ht Kft	i		4.7	1		6.7	}		2.5	l		5.1	l		4.6
AVG thickness Kft	L_		.48	L		23			.38			. 65	L		.34
AVG trap freq GHz			1.6	1		2.3			. 94	1		.23			.65
AVG lyr grd -H/Kft	Į.		61	ĺ		66	ĺ		54	[68			63
AVG lyr base Kft	L		4.4			6.5	<u> </u>		2.2	<u> </u>		4.6	L		4.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	occi	IRRENCE	Y	RRLY	7	Ji	AH-NA	1R	Al	PR-J	JH	J.	JL-8	Ρ	01	T-DE	C
			day	nit	dån	day	nit	dån	day	nit	d&n	day	nit	dŧn	day	nit	dan
9 to	18	Feet	12	13	13	18	19	19	18	19	18	3	6	5	8	10	9
10 to	28	Feet	14	14	14	24	22	23	18	16	17	4	5	4	10	15	12
20 to	30	Feet	17	18	17	22	22	22	28	17	18	<u> </u>	10	9	19	22	20
38 to	40	Feet	14	15	15	16	16	16	12	11	11	10	14	12	19	20	19
40 to	58	Feet	11	11	11	5	7	6	7	12	9	14	16	15	18	19	14
50 to	60	Feet	7	8	. 8	2	3	3	_ 5	6	5	13	14	13	10	_ 9	9
60 to	70	Feet	3	- 5	4	1	2	- 2	2		2	5	10	8	4	4	
70 to	88	Feet	2	3	2	1	0	1	1	2	2	3	5	4	2	3	3
89 to	98	Feet	2	1	_ 2	8	. 1	1	. 1	. 1	1	4	2	3	. 1	1	1
98 to	100	Feet	1	1	1	ī	1	1	1	1	1	3	1	2	0	1	1
#pone	100	Feet	17	11	14	8	7	8	17	15	16	34	17	25	8	7	7
Hean he	ight	Feet	56	47	52	35	35	35	51	48	49	92	65	79	45	41	44

PARHMETER	Y	UKT.	Y	J 1	AH-M!	ar	BI	PR-JI	JH	J 1	UL-SE	EP :	00	CT-DI	EC
1	day	nit	d£n	day	nit	den	day	nit	din	day	nit	dtn	day	nit	din
% occur EL&SB dcts			Ð			9			9			1			0
% occur 2+ EL dcts			1	ł		0			9	Ì		2			1
RVS station N			329			314	ŀ		332			344	į		325
AVG station -H/Kft			13	ŀ		12			15			15	i		12
RVG sfc wind Kts	13	13	13	14	15	15	12	12	12	:1	10	11	13	13	13

THE REPORT OF THE PROPERTY OF THE PARTY OF T

TO THE PROPERTY OF THE PROPERT

Specified location:

45 01 N 33 58 E

(*) INDICATES INSUFFICIENT DATA

Radiosonde source : 33946 45 81 N 33 58 E

Radiosonde station height: 919 Feet

Surface obs source: MS177 45 00 N 35 00 E

DEDCENT OCCUPRENCE OF ENGANCED CHEEGGE_TO_CHREGGE DARGO/FCM/FOM PANCES.

PERCENT OCCUPRENCE T		********	LLD .	JUN 1 1			V				C 0 · ·	* ****	3 to V t		
FREQUENCY	Y	EARL'	Ý	J	AH-M	1R	RI	PR-J	JH .	ĭ	JL-SI	EP	00	CT-DE	EC
	day	nit	d&n	day	nst	dan	day	nit	d&n	day	nit	d\$n	day	nit	dsn
100 MHz	8	- 0	8	9	- 0	- 0	0	6	8	Ø	9	8	8	0	0
1 GHz	17	12	14	8	8	8	18	16	17	34	17	26	8	7	8
3 GHz	20	15	17	9	9	9	28	19	19	42	21	31	10	9	10
6 GKz	32	39	31	14	15	15	27	29	28	63	50	56	26	25	25
10 GHz	57	56	57	35	39	37	46	51	49	86	80	83	63	55	59
20 GHz	74	74	74	57	61	59	66	_67,	66	93	91	92	82	76	79

PARAMETER	Y	ARL'	Y	3	AN-M	AR	A	R-J	JN	J	JL-SI	P	Q	CT-DI	EC
	day	nit	d&n	day	nit	d&n	day	nit	dkn	day	nit	d&n	day	nit	d₹n
Percent occurrence	1	1	1	1	1	1	2	3	3	1	9	1	8	1	ī
AVG thickness Kft	l		, 29	1		.21	•		.31	1		.63			.48
AVG trap freq GHz	l		1.1	i		2.5	l		1.6	l		.28			.63
AVG lyr grd -H/Kft	l		110	l		162	1		85	i		68			124

PARAMETER	Y	EARL'	Y	J	AN-H	AR	Ri	R-J	UH	31	JL-SI	EP	01	CT-DI	EC
	day	nit	d&n	day	nit	d&n	day	nit	din	day	nit	d&n	day	nit	den
Percent occurrence	1	1	1	1	1	1	1	1	1.	1	2	2	1	1	<u></u>
AVG top ht Kft			5.7			6.6			7.3			6.€	ì		3.0
AVG thickness Kft			.26			. 19			. 35			.22	i		. 35
AVG trap freq GHz			2.1			5.7			.84			1.3			.60
AVG lyr grd -N/Kft			70	1		60	İ		91			69	l		58
AVG lyr base Kft	Ī		5.6	l		6.5	Ī		7.2	l		5.9	l		2.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCURRENCE	Y	EARL	4	J	RN-M	AR .	A	PR-JI	UH.	31	UL-S!	EP	01	CT-DI	EC
		day	nst	dan	day	nit	d&n	day	nit	din	day	nit	d&n	day	nit	d&n
B to	10 Feet	12	13	:3	18	19	19	18	19	18	3	-6	5	8	10	9
18 to	20 Feet	14	14	14	24	22	23	18	16	17	4	5	4	10	15	12
28 10	38 Feet	17	19	17	22	22	22	20	17	18	7	10	9	19	22	20
38 to	40 Feet	14	15	15	16	16	16	12	11	11	18	14	12	19	20	19
46 %0	50 Feet	11	11	11	5	7	6	7	12	9	14	16	15	18	10	14
58 to	60 Feet	7	8	_ 8	_ 2	3	3	5	6	5	13	14	13	18	9	9
68 to	70 Feet	3	5	4	1	2	2	2	2	2	5	10	8	4	4	4
70 to	SB Feet	2	3	2	1	0	1	1	2	2	3	5	4	2	3	3
28 to	98 Feet	_ 2	1	2	Θ	1	1	1	1	1	4	2	3	1	1	_ 1_
98 to	100 Feet	1	1	1	1	1	1	1	1	1	3	1	2	0	1	1
above	100 Feet	17	11	14	8	7	8	17	15	16	34	17	25	8	7	?
Hean he	right Feet	56	47	52	35	35	35	51	48	49	92	65	79	46	41	44

YE	ARLY	Y	JI	ลห	hR	AF.	マーチ	JH.	Jŧ	UL-SI	EP	01	CT-DE	EĊ
day	nit	d&n	day	nit	dan	day	าร์น	dŧn	day	nıt	dir	day	การ	din
		9			9	1		3			0			- 0
•		8	İ		9	i		8	i		0	1		હ
l		312	ł		384	l		311	ł		322	l		319
l		12	ĺ		11	ł		12	1		12	1		12
13	4.3	_13	14	15	15	12	12	_12	11	16	11	13	13	13
	day	day nit	9 8 312	day nit dan day 0 0 312	day nit dan day nit 0 0 312	day nit dan day nit dan 0 0 0 0 312 304	day nit d&n day nit d&n day 0 0 0 0 0 312 304	day nit dan day nit dan day nit 0 0 0 0 312 304	day nit dan day nit dan day nit dan 0	day nit dan day nit dan day nit dan day 0 0 0 0 0 0 0 312 304 311	day nit dan day nit dan day nit dan day nit day nit dan day nit 0 0 0 0 0 0 0 0 312 304 311	day nit dan day nit dan day nit dan day nit dan 0	day nit dtn 0	day nit dan day nit day

HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 44 06 N 39 04 E (*) INDICATES INSUFFICIENT DATH Radiosonde source: 37018 44 96 N 39 04 E

Radiosonde station height: 315 Feet Surface obs source: MS177 45 00 N 35 00 E

DESCRIPT OCCUPATIONS OF ENHANCED SURFACE-TO-SURFACE RADAR/ESH COM RANGES:

PENCE	• • • •	OCCORRENCE !	OF_E	MUNITER	<u> </u>	SURF	nce-	10-3	UKFRI	- F	יאחעה	E 211	CON	K11114	3C3.		
۶	RE	DUENCY	Ŷ	ERRL'	Y	Ji	AN-MI	AR	AI	PR-J	UN		UL-S	EP	01	CT-DI	EC
			day	nit	_d&n	day	nit	d&n	day	nit	dŁn	day	nit	dŁn	day	nit	d£n
1	90	MHZ	1	1	1	0	8	- 0	1	1	1	1	1	1	1	1	1
l	1	GH=	19	14	15	8	9	8	20	18	19	36	19	28	11	10	11
1	3	GH2	23	18	20	9	11	10	23	21	22	45	24	34	14	14	14
	6	GHz	35	33	34	14	17	15	31	32	31	65	52	59	30	30	30
į	10	GHz	59	58	59	35	40	37	49	53	51	87	81	84	65	58	61
ļ	20	GHZ	75	75	75	57	62	59	68	69	68	94	91	92	83	78	86

SUPPOSE RASED DUCT SUMMARY:

IREPS REV 2.1

PARAMETER	YI	EARL'	Υ	J	AH-M	R	AI	R-J	บห	Jı	JL-S	EP	0:	T-DI	EC
	day	กาเ	dan	day	nit	d&n	day	nit	dtn	day	nit	dîn	day	nit	den
Percent occurrence	7	7	7	1	4	3	9	9	9	9	6	8	7	10	9
AVG thickness Kft			. 16	1		. 14			.16	ŀ		.19	ł		. 15
AYG trap freq GHz			1.8	ŀ		2.6	[1.6			1.5			1.6
AVG lyr grd -N/Kft			118			131	L		187			105	L		131

ELEVATED DUCT SUMMARY:

PAPANETER	Y	EARL	Υ	7	AH-M	AR	Af	R-J	JH	- 31	JL-\$	EP	0	CT-DI	EC
	day	nit	_ 12 ಬ	day	nit	d&n	day	nit	d‡n	day	nit	d£n	day	nit	dŧn
Percent occurrence	2	3	3	2	1	2	3	4		2	5	4	1	2	2
AVG top ht Kft			5.4	}		5.9			6.1	ļ		6.1	j		3.5
AVG thickness Kft			.27	L		.20	L		.28			.32	i		.30
AVG trap freq GHz			1.4			1.6			1.8			1.6			1.5
AVG lyr grd -N/Kft			60	i		72			52	l		55	i		60
AVG lyr base Kft			5.2	Ĺ	_	5.8			5.9	[5.8	1		3.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

EANLOWHITON DOC! H						_									
PERCENT OCCURRENCE	Y	EARL'	Y	. J	AN-HI	AR	RI	シドース	JN	Ji	リレーち	EP	00	CT-DE	C
	day	nit	d&n	day	nit	din	day	nit	din	day	การ	dan	day	nit	ds a
0 to 10 Feet	12	13	13	18	19	19	18	19	18	3	6	5	8	18	9
10 to 20 Feet	1 14	14	14	24	22	23	18	16	17	4	5	4	10	15	12
20 to 30 Feet	17	18	17	22	22	22	28	17	18	7	18	9	19	22	20
30 to 40 Feet	14	15	15	16	16	16	12	11	11	10	14	12	19	20	15
40 to 50 Feet	111	11	11	5	7	6	7	12	\$	14	16	15	18	16	14
50 to 60 Feet	7	3	8	. 2	3	3	5	€	5	13	14	13	10	9	9
60 to 70 Feet	3	5	4	1	2	2	-2	2	2	5	10	8	4	4	4
78 to 88 Feet	2	3	2	1	9	1	1	2	2	3	5	4	2	3	3
80 to 90 Feet	1 2	1	2	i e	1	1	1	1	1	4	2	3	1	1	1
90 to 100 Feet	1	1	1	1	1	1	1	ī	1	3	1	- 2	0	1	1
above 100 Feet	17	11	14	8	7	8	17	15	16	34	17	25	8	7	:
Mean height Feet	56	47	52	35	35	35	51	48	49	92	65	79	46	41	44

TO SECURE THE SECURE THE SECURE OF THE SECURE THE SECURE OF THE SECURE O

GENERAL METEOROLOGY SUMMARY:

...

PARAHETER	YEARLY	JAN-HAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit di	n day nit dt	n day nit din	day nit dan	day nit den
% occur EL&SB dcts		ə	8 8	8	0
% occur 2+ EL dcts		0	B[0	6	(0
AVG station N	32	8 31	3 333	345	322
AVG station -N/Kft	1	4 1	2 14	16	13
AVG sic wind its	13 13 1	3 14 15 1	5 12 12 12	11 10 11	13 13 13

(#) INDICATES INSUFFICIENT DATA

H

Specified location: 44 13 H 28 37 E

Radiosonde source : 15480 44 13 N 28 37 E

56 Feet

Radiosonde station height:

Surface obs source: HS178 45 00 H 25 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

PERCENT OCCURRENCE	UF E	nnnn	LED	SUKF	nuE-	10-3	URFR	CE K	- אחעה	<u> </u>	CON	KNIN	453.		
FREQUENCY	Y	EARL	Y	J	AN-M	ar.	A	PR-J	UH	J	UL-S	EP	0	CT-DI	EC
	day	nit	d&n	day	nit	d&n	day	nit	dŁn	day	nit	dŁn	day	nit	d&n
100 MHz	1		ī	9	6	9	1	2	1	1	3	2	1	1	1
1 GHz	32	22	27	11	10	11	39	32	35	49	31	48	28	16	22
3 GHz	36	27	31	13	12	12	41	37	39	57	39	48	32	19	26
6 GHz	49	42	45	19	17	18	49	49	49	76	63	69	53	37	45
10 GHz	68	64	66	40	38	39	64	67	65	89	83	86	88	69	74
20 GHz	81	79	88	63	61	62	76	_89	78	94	91	93	98	84	87

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	HRL'	Y	J	מ-אA	AR	AF	R-Ji	ИL	31	JL-SI	EP	ŏ	CT-DI	EC
_	day	nit	dŁn	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	dan
Percent occurrence	5	10	8	2	3	3	4	12	8	8	17	13	6	8	7
AYG thickness Kft			.22	ĺ		. 17	l		.22			.28	l		.22
AVG trap freq GHz	l		1.0	l		1.5	I		.95			.65			1.1
AVG lyr grd -N/Kft	ŀ		122			160			107			192	i		118

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	31	AK-NA	AR	Al	R-JI	JN	JI	JL-\$1	EP	0	CT-DI	EC
	day	nit	dan	day	nit	din	day	กาเ	d&n	day	nit	dan	day	nit	dan
Percent occurrence	3	3	3	1	1	1	4	4	4	3	5	4	2	3	3
AVG top ht Kft			2.6			3.4	i		1.4	1		2.4	i		3.3
AVG thickness Kft			.40			.38	Ι.	_	. 32	Į .		.55	1		. 35
AVG trap freq GHz			.89			.69			.91			.40			1.6
AVG lyr grd -N/Kft	l		68	i		75	l		56	1		54	!		55
AVG lyr base Kft			2.3	I		3.2	Į		1.2	1		2.8	j		3.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	CCC	URRENCE	78	ARLI	· ·	J:	an-Hi	R.	AF	?R-JI	JH	Jt	JISE	P	G	T-DE	EC
			day	nit	d&n	day	nit	den	day	nit	dan	day	nit	d£n	day	nit	den
Ø 10	10	Feet	9	- 9	9	15	16	16	11	11	11	3	4	4	4	5	_ :
10 to	20	Feet	11	13	12	22	24	23	13	11	12	3	5	4	7	11	•
20 to	30	Feet	13	16	14	23	23	23	13	14	14	5	9	7	11	16	1.
30 to	40	Feet	11	14	12	15	14	14	10	12	11	7	11	4	14	18	10
48 to	50	Feet	8	11	19	7	8	7	5	8	7	8	12	10	14	16	1:
58 to	68	Feet	6	8	7	3	2	3	4	6	5	_ 8	14	11	11	10	11
60 to	70	Feet	4	4	4	2	1	2	2	4	3	7	7	7	6	5	
70 to	80	Feet	3	3	3	1	1	1	2	2	2	5	6	5	4	3	
80 to	90	Feet	2	2	2	9	1	1	_ 1_	2	2	4	4	4	_ 2	_ 1	_ :
90 to	100	Feet	2	1	2	θ	1	1	1	2	2	3	2	3	2	1	
above	100	Feet	30	18	24	11	9	18	37	28	33	47	23	35	26	12	1
Hean he	rgh	t Feet	79	61	78	41	38	39	87	73	63	112	77	95	76	55	6

PARAMETER	Y	EARL'	Y	J	AN-M	AR	Ai	PR-J	אע	ĭ	UL-SI	EP.	ő	CT-D	EC
	day	nit	dan	day	nit	din	day	nit	d&n	day	nit	dan	day	nit	dEn
% occur EL&SB dcts			0			0			0			8		-	0
% occur 2+ EL dcts			0	i		0	!		0	l		8			9
AVG station N	ĺ		329	ł		316			331	l		345			323
AVG station -N/Kft			14			12			14			15			13
AVG sfc wind Kts	12	11	11	13	12	13	11	11	11	11	10	10	12	11	11

IREPS REV 2.1

HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: Radiosonde source : 17862 48 58 N 29 84 E

46 58 N 29 84 E (*) INDICATES INSUFFICIENT DATA

Radiosonde station height: 131 Feet

Surface obs source: MS178 45 00 N 25 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	Y	EARL	Ÿ	7	AH-M	R T	A!	PR-J	NU	JI	JL-SE	EP	C	CT-DI	EC
	day	nit	dan	day	nit	dan	day	nit	d&n	day	nit	d&n	day	nit	dån
100 MHz	0	1	1	8	- 0	9	0	2	1	1	2	1	9	1	0
1 GHz	31	21	26	11	9	10	38	33	35	49	29	39	26	14	20
3 GHz	35	25	38	12	19	11	41	_38	39	56	37	46	30	16	23
6 GHz	48	48	44	18	15	17	48	49	49	75	61	68	51	35	43
10 GHz	68	64	66	39	36	38	63	67	65	89	82	86	79	68	73
20 GHz	88	78	79	63	68	61	76	38	78	94	91	92	90	84	87

CHDESCE BACED BUCT CHMMADY.

JOH! HEE DIIJED DOCT	30111111														
PARAMETER	YE	ARL	ď	J	AH-HI	R-	A.	PR-J	JH	31	UL-SI	ΕP	01	CT-Di	EC
	day	nit	din	day	การ	dŁn	day	กาะ	d&n	gay	nit	₫&n	day	nit	dar.
Percent occurrence	3	7	5	1	0	1	2	11	7	6	13	10	1	3	_ z
AVG thickness Kft	j		.43	i		.42	l		.36			.38	l		. 55
AVG trap freq GHz			. 65	ļ		.88	i		.57	i		. 65	l		.51
AVG lyr grd -N/Kft			139			157	١.	_	113	L		157	1		129

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	J	H-NA	AR	R	R-J	אט	31	JL-SI	EP	96	CT-D	EĆ
	day	nit	d&n	day	nit	den	day	nit	dan	day	nit	d&n	day	nit	dtn
Percent occurrence	5	9	7	4	4	4	0	8	4	11	14	13	3	8	6
AVG top ht Kft			3.4	ĺ		3.2	ł		2.7	!		3.1	<u> </u>		4.7
AVG thickness Kft	1		.35			.31	1		.39	1		.41	İ		.27
AVG trap freq GHz			.89			1.1			.62			.60			1.3
AVG lyr grd ~H/Kft	İ		57	l		56			62			54	1		57
AVG lyr base Kft	ŀ		3.1	İ _		2.9	l		2.4	,		2.8	l		4.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	Y 1	EARL	Y	J	AK-M	AR T	81	:R-J	HU	Jl	JL>	P	C	CT-DE	:C
	day	nit	dŁn	day	nit	d&n	day	nit	dån	day	014	Jkn	day	nit	dŁn
0 to 10 Feet	9	9	9	15	16	16	11	11	11	3	4	4	4	5	5
10 to 20 Feet	11	13	12	22	24	23	13	11	12	3	5	4	7	11	9
28 to 30 Feet	13	16	14	23	27	23	13	14	14	5	9	7	11	16	14
30 to 48 Feet	11	14	12	15	14	14	10	12	11	7	11	9	14	ទេ	16
48 to 58 Feet	ಕ	1 i	18	7	8	7	5	8	7	8	12	19	14	16	15
58 to 60 Feet	i⊊	8	7	3	2	3	4	6	5	. 8	14	11	11	10	10
68 to 78 Feet	7-3	4	4	2	i	2	2	4	3	7	7	7	6	5	- 6
70 to 40 Feet	3	3	3	1	1	1	2	2	2	5	6	5	4	3	3
80 to 98 ****	2	2	2	_ e	1_	1	1_	_ 2	2	4	4	4	2	. 1_	2
98 to 182 ****	2	1	2	6	1	1	1	2	2	3	2	3	2	1	1
above 108 feet	30	18	24	1 31	9	10	37	28	33	47	23	35	26	12	19
Hean height feet	79	61	78	43	+8	39	87	73	80	112	77	95	76	55	66

GENERAL KETESPOLOGY SUMMARY:

PARAMETER	YERRL'	r	189	-MAR	APR-J	UN	JUI	L-SEP	OCT-I	EC
	day nit	ರ್ಷಣ	٠	it dan	day nit	₫ŧn	dayr	nit_d&n	day nit	d&n
% occur EL&SB dcts		1		8		1				_ o
% occur 2+ EL dcts		0		0	l	0		1	ł	0
AVG station N	i	331	l.	319		332		344		328
RVG station -H/Kft		15	l	12		16		17	Į.	13
AVG sfc wind Kts	12 11	11	13	12 13	11 11	11	11	10 10	12 11	11

Specified location: 40 31 N 22 58 E Radiosonde source: 16622 40 31 N 22 58 E

Radiosonde station height: 13 Feet Surface obs source: MS178 45 00 % 25 00 E

PERCENT OCCURRENCE OF ENHANCE 3CE-TO-SURFACE RADAR/ESM/COM RANGES:

	FRE	QUENCY	Y	ERRL	₹		H-H	AR	A	PR-J	UN	J	UL-SI	EΡ	0	CT-D	EC
			day	nit	dån	ļ.	it	dŁn	day	nit	d&n	day	nit	dtn	day	nit	d&n
	100	MHz	0	1	1	Гι	9	9	0	1	0	1	1	1	1	1	1
	1	GHz	31	28	25	11	9	10	38	36	24	48	26	37	28	14	21
1	3	GHz	35	24	29	12	10	11	48	35	_38	55	33	44	32	17	25
	6	GHz	48	39	44	18	15	:6	48	47	47	75	59	67	53	35	44
1	18	GHz	68	63	65	39	36	38	63	66	64	89	81	85	88	68	74
1 _	28	GHz	89	78	79	62	69	61	75	79	77	94	90	92	90	84	87

(*) INDICATES INSUFFICIENT DATA

<u>:</u> نگ

SURFACE BASED DUCT SUMMARY:

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PARAMETER	YEARLY	7	JAI	N-MA	IR	A	R-JU	JH	J	JL-SE	Ρ	00	T-D	EC
	day nit	dan	day (nít	dtr	day	nit	d&n	day	nit	d&n	day	nit	d&n_
Percent occurrence	3 5	4	1	8	1	1	9	5	4	5	5	6	5	6
AVG thickness Kft		.30	ŀ		.19	İ		.28			.46	l		.28
AYG trap freq GHz		1.6	l		2.5	!		2.0	l		.39			1.3
AVG lun grd -4/Kft		233			429			194			101	ļ		207

ELEVATED DUCT SUMMAPY:

ELEYNIED DOCT SUNNING															
PARAMETER	YE	ARLY	7	Ji	H-HE	R -	A!	R-J	אט	3	JL-SI	EP	O	CT-DI	EC
	day	nit	d&n	day	nit	dŧn	day	nit	ರ ೩೧	day	nit	d&n	day	nit	dkn
Parcent occurrence	4	8	6	2	9	1	5	14	10	6	13	10	4	5	5
AVG top ht Kft			4.6	l		4.1	l		3.5	İ		7.6	į		3.2
AVG thickness Kft	Ì		. 26	<u> </u>		.14	<u> </u>		.29	L		.20	<u> </u>		.39
Aug trap freq GHz			2.2			3.9			1.7			2.3			1.6
AVG lyr grd -N/Kft	1		60	l		56	l		62	1		62	ì		59
AVG lyr base Kft	Ĺ		4.4	<u> </u>		4.0			3.3	L		7.4	L		2.9
															

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCURRENCE	Y	EARL'	y.	Ji	3H-149	AR	A	PR-JI	ΠŅ	JI	JL-SI	F	01	CT-DE	C
		day	nit	d&n	day	nit	din	day	nit	d&n	day	nit	dan	day	nit	den
0 0	18 Feet	9	9	9	15	16	16	11	11	11	3	4	4	4	5	5
18 to	28 Feet	11	13	12	22	24	23	13	11	12	3	5	4	7	11	9
20 to	30 Feet	13	16	14	23	23	23	13	14	14	5	9	7	11	16	14
39 to	40 Feet	1:	14	12	15	14	14	18	12	11	7	11	9	14	18	16
48 10	58 Feet	કે	11	10	7	8	7	5	8	7	8	12	16	14	16	15
50 to	68 Feet	6	\$	7	3	2	3	4	6	5	8	14	11	11	. 18	10
60 to	78 Feet	1	4	4	2	1	2	2	4	3	7	7	7	6	5	6
78 to	80 Feet	3	3	3	1	1	1	2	2	2	5	6	5	4	3	3
38 10	98 Feet	2	2	2	8	1	1	1	2	2	_4	_4	4	2	1	2
90 10	108 Feet	5	1	2	8	1	1	1	2	2	3	2	3	2	1	1
above	188 Feet	30	18	24	11	9	10	37	28	33	47	23	35	26	12	19
Hean he	ight Feet	79	61	78	41	38	39	87	73	89	112	77	95	76	55	66

PARAHETER	Y£	YEARLY day nit dan			M-MF	AR	A.	スーノも	UH	Jt	JL-SE	9	90	T-DI	EC
	day	niz	din	day	nit	din	day	nit	din	day	nit	d£n	day	nit	den
% occur EL&SB dcts			1			8			8			1			1
% occur 2+ EL dcts	Ì		6	Ì		8	İ		0	l		0			8
AVG station N			323	l		314			321			331			325
AVG station -N/Kft	Ì		12]		11	l		12			13	i		13
AVG sfc wind Kts	12	11	11	13	12	13	11	11	11	1:	10	10	12	11	11

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

Specified location: Radiosonde source : 16320 40 39 N 17 57 E

40 39 N 17 57 E (+) INDICATES INSUFFICIENT DATA

Radiosonde station height: 23 Feet

Surface obs source: MS179 45 00 N 15 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESH/CON RANGES:

FREQUENCY	Y	EARL'	Y	J	คพ-พ	AR	A	PR-J	UN	J	JL-SI	P	00	CT-DI	EC
	day	nit	dŧn	day	nit	dån	day	nit	d&r	day	nit	din	day	nit	dsn
100 MHz	4	2	3	8	0	8	4	2	3	9	6	8	1	8	1
1 GHz	46	25	35	26	9	18	68	37	48	68	43	55	29	9	19
3 GHz	59	28	39	30	10	20	64	42	53	74	49	61	34	12	23
6 GHz	65	42	54	46	23	35	74	52	63	83	63	73	55	31	43
10 GHz	81	67	74	70	54	62	85	70	78	91	81	86	78	62	70
20 GHz	89	81	85	84	75	79	98	81	85	94	89	92	96	88	65

SURFACE BASED DUCT SUMMARY:

	301111111111111111									_	_			
PARAHETER	YEARL	Y	J	AH-MI	BR	A	PR-JI	HU	J	いとーち	EP .	0:	CT-DE	33
	day nit	d&n	day	nit	dżn	day	กเเ	d&n	day	nit	dan	day	nit	din
Percent occurrence	18 11	14	4	3	4	26	13	17	37	24	31	9	4	7
AVG thickness Kft	ļ	. 39	l		. 19	[.49	i		.59			-39
AVG trap freq GHz	1	1.1	ĺ		2.7	[.41	ŀ		.26			1.1
AVG lyr ard -N/Kft	l	108	<u> </u>		191	L		88			74	L		88

ELEVATED DUCT SUMMARY:

PARAMETER	YI	EARL'	¥ —	7	AN-M	RR	AI	R-JI	JH.	71	JL-SI	EP	90	CT-DI	EC _
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	dan	day	nit	dan
Percent occurrence	11	14	13	5	6	6	9	11	18	18	26	22	12	13	13
AVG top ht Kft			2.7	ŀ		3.3	l		2.0			2.1	ŀ		3.6
AVG thickness Kft			. 40			.23	<u> </u>		. 44			.45	L		. 49
AVG trap freq GH=			-68			1.4			.48			.50			.38
AVG lyr grd -N/Kft			54			53	l		53			53			59
AVG lur base rft			2.4			3.1	L		1.6			1.7			3.2

EVAPORATION DUET HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRE	NCE Y	ENPL'	Y	J	AN-MI	AR .	81	PR-J	JN	31	JL-SI	EP -	36	T-DI	Ξζ
	day	nit	d&n	day	nit	d&n	day	nít	dan	day	nit	can	day	nit	dt ^
9 to 10 Fee	. 6	7	6	8	8	- 8	6	10	- 8	5	5	5	4	- 6	5
10 to 20 Fee	1 7	14	10	9	17	13	5	13	9	5	10	7	8	15	11
20 to 30 Fee	1 9	16	13	14	22	18	6	12	9	5	11	8	12	19	15
38 to 40 F€€	1 10	15	13	14	19	16	8	12	10	6	12	9	13	18	15
40 to 50 Fee	t 9	11	18	111	:2	11	6	8	7	5	11	8	12	14	13
58 to 68 Fee	1 7	7	7	_9	?	_ 8	_4	_ 5	4	5	7	€	11	10	11
58 to 78 Fee	1 5	5	5	4	- 4		4	3	4	5	7	6	7	6	6
70 to 80 Fee	1 4	3	3	3	2	3	3	2	3	4	5	5	4	3	4
88 to 98 Fee	1 2	2	2	_ 2	1	1	2	2	2	3	2	3	_ 2	2	2
98 to 188 Fee	1 2	: 1	1	1	8	1	1	1	1	2	2	2	2	1	1
above 100 Fee	1 39	19	29	25	8	17	53	31	42	54	29	4:	25	8	17
Hean height Fe	et 97	62	89	73	43	58	118	79	98	120	81	18 i	78	46	62

PARAHETER	YEARLY	JAN-MAR	APR-JUH	JUL-SEP	OCT-DEC
	day nit dan	day nit dan	day nit din	day nit dan	day nit den
% occur EL&SB dcts	1	6	1	3	:
% occur 2+ El. dcts	1		e	2	8
AYG station N	341	327	341	360	336
AVG station -N/Kft	17	14	18	22	16
AVG sfc wind Kts	9.3 8.4 8.8	11 10 18	8.7 7.3 8.6	8.1 6.6 7.3	18 9.5 19

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

(*) INDICATES INSUFFICIENT DATA Specified location: 41 48 N 12 13 E 41 48 H 12 13 E Radiosonde source : 16242

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THE SECOND PRODUCTION OF THE SECOND PRODUCTION

7 Feet Radiosonde station height: Surface obs source: MS179 45 00 N 15 00 E

PERCENT C	CCUPPENCE	OF E	HAN	CED 9	SURF	90 <u>E-</u>	<u> 10-51</u>	URFAI	CE PF	ADAP.	ESM.	COM	PAH	SES:		
FREC	DENCY	18	EARL	Y	J	คพ-พเ	AR	R	PR-JU	JN	1	JL-SI	ĘΡ	ō	CT-DE	EC
		day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	dan
100	MHz	1	3	2	8	8	0	1	3	2	3	7	- 5	9	6	- 8
1	GHz	41	25	33	26	9	17	54	37	46	58	46	52	26	8	17
3	GHz	45	29	37	29	10	28	58	42	50	63	53	58	31	11	21
6	GHz	61	43	52	45	23	34	69	52	68	76	66	71	53	39	42
10	GHz	79	67	73	69	54	62	82	76	76	87	82	84	77	62	69
28	GHz	88	81	85	84	75	79	88	81	85	91	90	91	89	86	94

SUPPRIE RASEN BUST SUMMARY

PARAHETER	YE	HRL.	7	JI	AN-MI	RR	AI	R-J	UH	Ji	JL-SI	EP	01	T-DI	EC
	day	nit	d&n	day	กาน	d&n	day	nit	d&n	day	การ	d&rı	day	nit	dŧn
Percent occurrance	5	12	8	1	3	2	4	14	9	11	30	21	2	2	2
AVG thickness Kft			.41	i i		.27	l		. 47	1		.60			.30
AVG trap freq GHz			1.0	ļ .		2.6	l		. 47	i		.26	i		1.1
AVG lyr and -N/Kft	i		98	l		112	1		104	J		76			99

CARA TEXASSEST AND COMPANY OF TAXABLE PROPERTY OF THE PROPERTY

PARAMETER	Y	ERRL'	Y	Ji	AH-H	AR _	AI	PR-JI	JN	1,	JL-SI	ĒΡ	00	T-DI	EC
	day	011	d&n	day	nit	din	day	nit	d&n	day	nit	d&n	day	nit	den
Percent occurrence	7	12	9	2	4	3	6	- 9	ક	1;	21	16	8	12	10
AVG top nt Kft			3.4			4.5	l		2.3			2.7	l		4.8
AVG thickness Kft	L		.37	<u> </u>		.27	l		. 40	<u> </u>		.49	l		. 33
AVG trap freq GHz			.73			.91			1.8			.38	-		.65
AVG lyr grd -N/Kft	Į.		57			57	ı		57	ŀ		59	ı		55
AVG lyr base Kft			3.1	ŀ		4.3	ĺ		2.0	ì		2.4	l		3.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	Y	EARL	Y	J	PH-N	AR	AI	R-JU	JN	Ji	JL-SI	EP_	_ 50	T-DE	:C
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	den	day	nıt	dan
0 to 10 Feet	6	7	- 6	8	8	8	6	10	8	5	5	5	4	6	5
10 to 20 Feet	7	14	10	9	17	13	5	13	9	5	19	7	8	15	11
20 to 30 Feet	9	16	13	14	22	18	6	12	9	5	11	8	12	19	15
30 to 40 Feet	10	15	13	14	19	16	8	12	19	6	12	9	13	18	15
40 to 50 Feet	9	11	10	11	12	11	6	8	7	5	11	ទ	12	14	13
50 to 60 Feet	7	7	7	9	7	8	4	5	4	5	. 7	- 6	_11	10	11
60 to 70 Feet	5	-5	5	4	4	4	4	3	4	5	7	6	7	6	6
70 to 80 Feet	4	3	3	3	2	3	3	2	3	4	5	5	4	3	4
88 to 98 Feet	2	2		2	1	1	2	2	. 2	3	2	3	2	2	2
98 to 100 Feet	2	1	1	1	- 6	1	1	1	1	2	2	2	2	1	1
above 190 Feet	39	19	29	25	8	17	53	31	42	54	29	41	25	8	17
Hean height Feet	97	62	80	73	43	58	118	79	98	120	81	181	78	46	62

GENERAL METEOROLOGY SUMMARY: PARAMETER YEARLY JAN-MAR APR-JUN JUL-SEP OCT-DEC day nit dan day nit din day nit d&n day nit dan day nit d&n % occur EL&SB dcts 0 3 ø % occur 2+ EL dcts 0 0 Θ ø AVG station N 336 323 338 354 330 AVG station -N/Kft 16 13 17 21 14 9.3 8.4 8.8 AVG sfc wind Kts 18 10 8.7 7.3 8.0 8.1 6.6 7.3 10 9.5 10

TREPS REV 2.1 HISTOPICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 41 55 N 8 48 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source: 7761 41 55 N 8 48 E Radiosonde station height: 30 Feet Surface obs source: MS180 45 00 N 5 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	Y	EARL'	Y	Ji	AN-M	RR .	A	PR-J	JN	J	JL-SI	P	00	T-Di	EC
_	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	dŁn	day	nıţ	dt ^
100 MHz	3	9	2	6	1	0	3	0	2	8	0	4	1	9	— ī
1 GHz	32	13	23	20	9	14	38	17	27	52	20	36	19	8	14
_ 3 GHz	38	17	27	24	12	18	44	23	32	59_	25	_42	26	10	18
6 GHz	55	33	44	48	25	33	57	33	45	72	42	57	59	38	49
10 GHz	74	59	66	68	55	61	72	55	63	83	64	73	74	61	ક્ક
20 GHz	83	73	78	81	72	76	79	79	75	87	75	81	84	75	80

SURFACE BASED DUCT SUMMARY:

305	THEE DISCE DOCT	,,,,,,,,	116. 1 4													
Г	PARAMETER	Y	EARL'	Υ	- 51	AH-MI	HR	AI	R-J	JH	Ji	JL-51	EP	Ö	CT-DI	EC
i		day	nıt	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	dan
Pe	rcent occurrence	16	2	9	4	6	5	19	0	10	32	- 6	16	9	- 0	-5
AY	G thickness Kft	i		. 34	i		.23	l		.37			.49			.27
AV	G trap freq GHz			1.1	Ì		2.8	i .		.52			.29	1		.90
AV	G lyr grd -N/Kft	Ĺ		119			227			80			_73			95

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EN&L	Ÿ	J	AH-M	fiR .	À	R-JI	UN	Jı	JL-Si	EP	0:	CT-DI	EC
	day	nit	dån	day	n; t	d&n	day	nit	d&n	day	nit	der	day	nit	din
Percent occurrence	8	0	4	4	0		8	0	4	16	- 0	8	5	Ø	3
AVG top ht Kft			3.5			3.4	1		3.4	ĺ		3.0			4.4
AVG thickness Kfi	L		. 35	<u> </u>		.37			. 35	l		.44			.22
AVG trap freq GHz			1.2			1.6			.71			-43			2.0
AVG lyr grd -N/Kft	l		57	ĺ		63	l		55	l		56	l		53
AVG lyr base Kft	ľ		3.3	i		3.1	1		3.1	(2.6	1		4.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	CCC	URRENCE	ΥĮ	EARLY	7	J	AH-HI	R	Al	PR-J	אט	Ji	JL-SI	P	00	T-DE	c –
			day	nit	dtn	day	ពារ	dan	day	nit	d&n	day	nit	dan	dáy	nıt	d\$n
8 to	10	Feet	12	13	13	10	14	12	18	16	17	12	12	12	19	12	11
10 to	20	Feet	8	14	11	10	16	13	8	14	11	7	14	10	8	13	10
20 to	30	Feet	10	14	12	13	18	16	9	15	12	- 6	18	8	11	14	12
30 to	40	Feet	11	14	13	15	17	16	9	13	11	8	16	- 9	13	17	15
48 to	50	Feel	11	12	11	13	13	13	ខ	9	9	8	12	10	14	15	14
50 to	68	Feet	8	8	8	9	8	9	6	6	6	7	8	7	12	16	: 1
60 to	78	Feet	6	5	5	5	4	4	5	4	5	6	6	6	8	6	7
70 to	98	Feet	4	3	3	3	2	2	3	2	3	5	4	4	5	3	4
88 to	96	Feet	_ 3	2	2	2	1	1	3	_ 1	. 2	4	3	3	3	2	2
90 to	108	Feet	2	1	2	2	1	1	2	1	2	3	2	2	2	1	
above	100	Feet	24	13	19	19	7	13	29	17	23	35	28	27	15	8	12
Mean he	ı gh	t Feet	72	92	62	62	42	52	75	_ 55	65	88	63	76	€1	47	54

PARAMETER	YE	ARL	Y	J	H-H	AR .	Al	PR-J(אט	31	UL-SI	P	00	T-DE	33
L	day	211	d&n	day	nit	d&n	day	nıt	din	day	nit	dtn	day	nit	den
% occur EL&SB dcts			1			- 0			1			2			9
% occur 2+ EL dcts			1	ŀ		8			1	1		2	ŀ		ð
AVG station N			338	l		322			340			360	ŀ		338
AVG station -N/Kft			14			12	i		15			19			13
AVG sfc wind Kts	12	10	11	13	12	13	11	9.2	10	10	8.6	9.1	14	12	13

52 97 K 4 34 W Specified location: 52 87 H 4 34 W Radiosonde source : 3502 Radiosonde station height: 433 Feet

55 09 N 5 00 W PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SUPFACE RADAR/ESM/COM RANGES:

	FRE(DUENCY	Y	RRL'	Y	J	RN-MI	R.	A	PR-JI	UN	Ji	JL-SI	EP	0	CT-DI	EC
L	_		day	nit	d&n	day	nit	d&n	day	nıt	d&n	day	nit	d&n	day	nit	d&n
	100	nHz	1	- 6	1	ī	9	8	2	0	1	2	. 0	1	1	6	- 0
1	1	GHz	10	3	7	4	1	3	15	4	9	16	5	11	6	2	4
L	_ 3	GHZ	14	4	9	_6	1	3	19	5	12	21	7	14	9	_2	5
	6	GHz	21	- 8	15	10	3	6	26	3	17	32	15	24	18	7	12
1	10	GHZ	46	32	39	33	23	28	43	23	33	54	40	47	51	40	45
	20	GHZ	66	56	61	60	53	56	61	45	53	71	62	66	74	66	70

(*) INDICATES INSUFFICIENT DATA

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OCT-BEC

CURPOSE BOCER SUCT CHMMODUS

Surface obs source: MS181

PARAMETER	Y	EARL	Ý	J1	BH-M	RR	_ AI	PR-J	JH	Ji	JL-SI	EP	01	CT-DI	EC
	day	nit	d&n	day	nıt	d&n	day	nit	d&n	day	nit	d&n	day	nit	dŁn
Percent occurrence	13	0	7	8	0	4	17	0	9	18	9	5	18	8	5
AVG thickness Kft	i		.16	1		. 15	l		.18			. 16	İ		. 14
AYG trap freq GHz			2.0	1		2.2	l		1.7			1.9			2.1
AVG lyr and -N/Kft	_		85	i		91	i		80			77	l		93

ELEVATED DUCT SUMMARY:

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PARAMETER	YER	RRLY	, —	Ĵ	RH-M	3R	_ AI	PR-JU	H	31	JL-SI	P	0	CT-D	ÉC
	day r	nit	dkn	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	dan
Percent occurrence	B	0	4	5	0	3	8	0	4	13	9	7	7	0	4
AVG top ht Kft			4.1	•		3.8	i		4.0			4.9			3.6
AVG thickness Kft			. 25	l		. 16			.21	1		.38			. 25
AVG trap freq GHZ			1.7			3.9			1.3		_	.48			1.1
AVG lyr grd -N/Kft			56	1		56			53			58			58
AVG lyr base Kft			3.9	1		3.7	l		3.8			4.6			3.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE: DEDCENT OCCUPPENCE YEARLY JAN-HAR APR-IIIN

EKCENI OCCON	KENCE	• • •	LINKE	•	, ,		7.5	l n	-K-J	011	, ,	UL-31	E.F.	, ,	וע-וט	
		day	ភាដ	d&n	day	nit	d&n	day	nit	din	day	nit	dan	day	nit	d&n
8 to 10 F	eet	18	20	19	17	18	18	23	28	25	18	20	19	12	14	13
18 to 28 F	eet	20	24	22	26	28	27	22	28	25	! 16	19	18	16	28	18
28 to 38 F	eet	22	25	24	_28	30	29	20	21	21	18	21	20	24	27	25
30 to 40 F	eet	18	17	17	19	17	18	13	11	12	15	17	16	23	22	23
40 to 58 F	eet	8	7	7	6	4	3	6	4	5	18	8	9	13	10	11
50 to 60 F	eet	4	3	4	2	1	2	3	2	2	6	5	5	5	4	5
60 to 70 F	eet	2	1	1	1	9	- 0	2	1	1	3	2		2	1	1
70 to 80 F	eet	1	1	1	0	ย	0	1	1	1	2	1	2	1	1	1
88 to 90 F	eet_	_1	A	1	_0	0	0	1	1	1	1	1	1	1	. 0	9
98 to 100 F	eet	0	9	0	Ü	0	- 0	1	1	1	1	1		e	8	Ū
above 100 F	eet	6	3	4	1	1	1	9	4	€	10	5	8	3	2	2
Mean height	Feet	34	27	30	26	22	24	36	25	30	41	32	37	32	29	31

PARAMETER	YEARLY	' I	JA	IN-MF	IR	RP	R-JL	JN]	. 30	JL-SE	.,	00	;T-DE	C
	day nit	d&n	day	nit	dan	day	nit	d&n	day	การ	din	day	nit	dtn
% occur EL&SB dcts		-1			0			2			1			9
% occur 2+ EL dcts		1			8	Į		1			1			9
AVG station N		321			313	ł		321			331			319
AVG station -H/Kft		14			13	ļ		14			15			14
AVG sfc wind Kts	16 15	16	19	19	19	13	13	13	13	13	13	19	18	18

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 50 13 N 5 19 W (*) INDICATES INSUFFICIENT DATA Radiosonde source : 3808 58 13 N 5 19 W Radiosonde station height: 285 Feet Surface obs source: MSI81 55 00 N 5 00 H

PERCENT OCCURRENCE	Ur E	<u>инки</u>	CED :	SURF	HCE~	<u>10-51</u>	UPFH	וא בט	HEHR	/ESM	<u> 100% </u>	RHN	<u> </u>		
FREQUENCY	Y	ERRL'	Y _	31	AK-M	AR .	Al	PR-JI	ŪN	J	UL-SE	EP	0	CT-DI	EC
	day	กเเ	d&n	day	nit	dŁn	day	nit	d&n	day	nit	d&r	day	nit	d&n
100 MHz	1	1	ī	Ø	9	8	1	1	- 1	1	1	1	0	9	9
1 GHz	8	5	6	2	2	2	11	6	8	14	8	11	4	3	3
3 GHz	10	7	8	_ 3	_3	3	13	8	11	18	11	15	5	4	_ 5
6 GHz	17	12	14	6	5	6	19	12	16	29	20	24	14	10	12
10 GHz	42	34	38	31	25	28	38	27	32	52	44	48	49	41	45
20 GHz	64	58	61	58	<u>54</u>	<u>56</u>	57	47	52	69	64	_ 67	72	67	79

SOMERICE BUSED DOCT	SUMMERY:				
PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	JCT-DEC
	day nit d&n	day nit dan	day nit d&n	day nit dan	day nit dan
Percent oscurrence	6 6 6	3 4 4	6 6 6	12 8 10	4 4 4
AVG thickness Kft	.16	.15	.19	.18	.12
AVG trap freq GHz	2.2	2.3	1.8	1.7	3.0
AVG lyr grd -N/Kft	109	106	145	69	196

ELEVATED DUCT SUMMAR	<u> </u>														
PARAMETER	Y	EARL'	Y	31	H-H	AR	Ai	R-1	UN	31	UL-S	EP	01	CT-D	EC
	dav	nit	dan	day	nıt	<u>_d&n</u>	day	nit	dkn	day	กระ	ರಕ್ಷ	day	nit	dtn
Percent occurrence	11	11	11	7	6	7	10	11	11	18	16	17	9	9	9
AVG top ht Kft			3.5	}		3.5	i		3.6	ļ		3.6	l		3.1
AVG thickness Kft	l.,		.29	[.26			.24	[.34	L		.31
AVG trap freq GHz			1.0			.87			1.8			.60			.89
AVG lyr grd -N/Kft			55	[58			53	l		55	1		56
AVG lyr base Kft			3,2			3.3			3.4	L		3.3			2.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OC	CURRENCE	Y	ARL'	Y	J	คห-หเ	AR	AI	PR-J	UH	JI	UL-S	ΕP	00	(T-D	EC
		day	nit	dŁn	day	nit	d&n	day	การ	d&n	day	nit	dŁn	day	nit	dt n
0 to 10	Feet	18	28	19	17	18	18	23	28	25	18	20	19	12	14	13
10 to 20	Feet	28	24	22	26	28	27	22	28	25	16	19	18	16	29	18
20 to 30	Feet	22	25	24	28	30	29	20	21	21	18	21	20	24	27	25
30 to 40	Feet	18	17	17	19	17	18	13	11	12	15	17	16	23	22	23
48 to 58	Feet	8	7	7	6	4	5	6	4	5	10	8	9	13	10	11
58 to 68	Feet	4	3	4	2	1	2	3	2	2	6	5	5	5_	4.	_ 5
60 to 78	Feet	2	1	1	1	8	8	2	i	1	3	2	2	2	1	1
70 to 80	Feet	1	1	1	8	8	9	1	1	1	2	1	2	1	1	1
80 to 90	Feet	1	. 0	1	0	8	0	<u>_:</u>	1	1	1	1_	1_	1	. 8	. 0_
98 to 18	9 Feet	Ð	_0	Ø	Ø	Ð	9	1	1	1	1	1	— <u>-</u>	6	- 6	е
above 10	0 Feet	6	3	4	1	1	1	j 9	4	6	10	5	8	3	2	2
Hean heig	ht Feet	34	27	36	26	22	24	36	25	39	41	32	37	32	29	_ <u> </u>

PARAMETER	YEARLY	JAN-HAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit d&n	day nit dan	day nit dan	day rit din	day nit din
% occur EL&SB dcts	1	0	1	2	0
% occur 2+ EL dcts	1	9	6	2	8
AVG station N	326	318	326	336	324
AVG station -N/Kft	14	13	14	16	14
AVG sfc wind Kts	16 15 16	19 19 19	13 13 13	13 13 13	19 18 18

51 84 N 8 13 H

(*) INDICATES INSUFFICIENT DATA

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Radiosonde source : 3774 51 04 N 0 13 H

Radiosonde station height: 472 Feet

Surface obs source: MS181 55 00 N 5 00 W

PERCENT ACCURPENCE OF ENHANCED SUPERCE-TO-SUPERCE RADAR-FSM CAN RANGES:

PEPLENT ULLUKKENLE (JF E	MUHN	LEN :	SURF	TCE-	10-31	UKERI	<u> </u>	אחער	637	£ 011	KHM	<u> 3E3.</u>		
FREQUENCY	Y	EARL'	Y	J	AN-MI	iR	AI	PR-JU	Ж	Jt	JL-31	P	01	CT-DI	EC
	day	nit	din	day	nit	d&n	day	nit	dkn	day	nit	d&n	day	nit	dan
100 MHz	0	1	9	0	0	0	8	1	1	1	1	1	8	0	8
1 GHz	7	5	6	2	2	2	10	7	8	13	9	11	4	3	3
3 GHz	9	. 7	\$	3	_ 3	3	12	9	13	16	12	14	5	4	4
6 GHz	16	12	14	6	5	5	18	13	15	26	21	24	13	10	11
10 GHz	41	35	38	30	25	27	36	28	32	50	45	48	49	41	45
28 GHz	63	59	61	57	54	56	56	48	52	68	65	66	72	67	78_

SUPFRCE BASED DUCT SUMMARY:

PARAHETER	YI	EARL	?	J	AH-M	AR	AI	PR-J	JN	3	UL-SI	ΕP	0	CT-DI	EC
	day	nit	<u>d&n</u>	day	nıt	d&n	day	nit	dŁn	day	nit	d&n	day	nit	dan
Fercent occurrence	4	6	5	2	3	3	3	5	6	7	10	9	3	4	4
AVG thickness Kft			.16			. 12	1		.20			.21	ĺ		.12
AVG trap freq GHz			2.2			2.3	l		1.9	l		1.7			2.8
AVG lyn grd -N/Kft	_		112	<u> </u>		120			145			71	<u></u>		112

ELEVATED TUCT SUMMARY:

PARAMETER	Y	ERRL'	Y -	J	RH-M	AR	A	R-J	CH	J	JL-SI	Ρ	0(ופ-דם	EC
	day	nit	dŁn	day	nit	d£n	day	nit	d&n	day	nit	dan	day	nit	d&n
Percent occurrence	7	9	8	3	- 6	5	7	9	8	14	12	13	5	7	- 6
AVG top ht Kft	;		3.7	ł		3.3	l		3.9	ŀ		4.0			3.6
AVG thickness Kit			.27	l _		.21			. 28	L		.31	L		.29
AVG trap freq GHz			1.0			1.4			.98			.76			1.1
AVG lyr grd -N/Kft	!		57	1		61	i		57	ı		56			56
AVG lur base Kft	1		3.5	1		3.1	l		3.7	l		3.8	Ī		3.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCC	URRENCE	YE	ARLY	7	31	าห-หเ	AR	A	R-J	JK	J	JL-SI	P	0	CT-Di	C -
			day	nıt	d&n	day	nit	din	day	nit	d&n	day	nit	din	day	ni t	d&n
3 to	10	Feet	18	20	19	17	18	18	23	28	25	18	20	19	12	14	13
18 to	29	Feet	20	24	25	26	28	27	22	28	25	16	19	18	16	28	19
20 10	30	Feet	22	25	24	28	30	29	28	21	21	18	21	20	24	27	25
30 to	40	Feet	18	17	17	19	17	18	13	11	12	15	17	16	23	22	23
40 to	50	Feet	8	7	7	6	4	5	6	4	5	10	8	9	13	10	11
59 to	60	Feet	4	3	4	2	1	2	3	2	2	6	5	5	_ 5	4	5_
60 to	70	Feet	2	1	1	1	0	- 0	2	1	1	3	2	2	2	1	1
70 to	80	Feet	1	1	1	9	8	8	1	1	1	2	1	2	1	1	1
80 to	98	Feei	1	8	_1	Θ	9	0	1	1	1	<u> </u>	1	1	_ 1	8	9
98 to	100	Feet	8	8	9	0	. 0	Θ	1	1	1	1	1	1	8	8	Ü
above	100	Feet	6	3	4	1	1	1	9	4	6	10	5	8	3	2	2
Hean he	1 gh	Feet	34	27	39	26	_22	24	36	25	_39	41	32	37	32	29	31

PARAMETER	Y	EARL'	٠	31	AH-MI	R R	AF	P-J	אט	JU	IL-SI	EP	00	こてーカロ	C
	day	nit	dŧn	day	nit	d≩n	day	nit	dan	day	nıt	din	day	nit	d&n
% occur EL&SB dcts			9			0			1			છ			Ð
% occur 2+ EL dcts			9	ĺ		8			9			1			8
AVG station N			322			315			320			332			319
AVG station -N/Kft			14			13	İ		13	ĺ		15			13
AVG sfc wind Kts	16	15	16	19	19	19	13	13	13	13	13	13	_19	18	18

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

Specified location: 54 28 N 6 06 N Radiosonde source : 3920 54 28 N 6 06 N Radiosonde station height: 125 Feet

(*) INDICATES INSUFFICIENT DATA

Surface obs source: MS181 55 88 N 5 88 N

PERCENT OCCORREGICE	UF E	<u>nanne</u>	LED :	SURF	16.5	10-21	אַרַתּי	CC FI	urus.	2311	, C.Ou	KHIN	<u> </u>		
FREQUENCY	Y	EARL'	Y	J	K-KA	FR	RI	PR-JI	אט	J	UL-SI	EP	0	CT-DI	ĒC
<u> </u>	day	nit	din	day	nit	d&n	day	១ខេ	din	day	nit	den	day	nit	din
100 MHz	1	1	1	0	0	. 6	1	9	1	1	1	1	1	8	1
1 GHz	8	5	7	2	1	2	11	5	8	15	9	12	5	4	4
3 GHz	11	. 7	9	_3	2	2	14	7	10	29	12	16	7	5	6
6 GHz	18	12	15	6	4	5	20	11	15	39	21	26	15	18	13
10 GHz	43	34	39	31	24	27	38	26	32	53	45	49	56	12	46
28 GH2	64	58	61	58	53	56	57	47	52	78	65	67	73	67	70

SURFACE BASED DUCT SUMMARY:

JOHN NOL BUSED BOCK	JOIN 111 1 1 1						_						
PARAMETER	YEARLY		JAN-M	AR	RI	PR-J(אע	J	UL-S	E۶	0	CT-D	EC
	day nit di	n da	y nit	d&n	day	nit	d&n	day	nit	dsn	day	nit	din
Percent occurrence	8 6	7	3 2	3	7	5	6	14	10	12	6	5	6
AVG thickness Kft	- 1	7 [. 13	[. 15			. 28	ĺ		. 19
AVG trap freq GHz	2.	5		3.9	i		2.4	i		1.6	}		2.0
RVG lyr grd -N/Kft	10	6		117	l		155			81			. 79

ELEVALED DOCT SOUDH	116														
PARAMETER	Y	EARL'	Y	3	AN-N	AR .	RI RI	PR-JI	אט	31	JL-S	EP	Õ	Ţ-D;	EC
	day	nit	dån	day	nit	dån	day	nit	đần	day	nit	dan	day	nit	din
Percent occurrence	7	7	7	4	4	4	7	7	7	19	12	11	5	5	5
AVG top ht Kft	1		3.7	l		3.9			2.7	ļ		3.9			4.2
AVG thickness Kit			.23	<u> </u>		. 25	ł	_	.19	L		.38	l		.15
AVG trap freq GHz			1.4			1.5			2.0			.89			1.2
AVG lyr grd -N/Kft	ł		58	l		58	ĺ		54	l		56	1		€3
h√G lyr base Kft	L		3.5			3.7	l		2.6			3.7			4.1

EVAPORATION DUCT HISTOGRAH IN PERCENT OCCURRENCE:

PERCENT	OCCU	IRRENCE	Y	ARL	7	3	AH-M	RR	A	PR-J	UN	J:	UL-S	EP	0	CI-DI	EC
			day	nit	d£n	day	nit	dŁn	day	nit	dŁn	day	nit	dan	day	nit	din
8 to	10	Feet	18	28	19	17	18	18	23	28	25	18	20	19	12	14	13
10 to	28	Feet	28	24	22	26	28	27	22	28	25	16	19	18	16	28	31
28 to	30	Feet	22	25	24	28	39	29	20	21	_21	18	21	29	24	_ 27	25
30 to	49	Feet	18	17	17	19	17	18	13	11	12	15	17	:6	23	25	23
48 to	58	Feet	8	7	7	6	4	5	6	4	5	10	8	9	13	18	11
50 to	60	Feet	4	3_	4	2	1	2	_3	_ 2	_ 2	_6	5	5	5	. 4	5
69 to	79	Feet	2	1	1	1	9	0	2	1	1	3	2	2	2	1	ī
78 to	88	Feet	1	1	1	9	9	0	1	1	1	2	1	2	1	1	1
89 to	98	Feet	1_	. 0	1	_ 8	e	8	1	1	1	1	1	1	1	8	9
90 to	188	Feet	Ø	9	0	0	8	8	ī	1	1	1	1	1	i 8	8	9
above	100	Feet	6	3	4	1	1	1	9	4	6	10	5	ક	3	5	2
Hean he	ight	Feet	34	27	38	26	22	24	36	25	30	41	32	37	32	23	31

CENTRAL HELECHOLOGIC					
PARAMETER	YEARLY	JAN-MAR	HUT-348	JUL-\$2P	GCT-DEC
	day nit din	day nit dan	day nit dan	day nit dan	day nit din
% occur EL&SB dcts	0	8	1	1	8
% occur 2+ EL dcts	[8	9	9	1	3
AVG station N	325	319	324	334	322
AVG station ~H/Kft	14	13	14	13	14
RVG sfc wind Kts	16 15 16	19 19 19	13 13 13	13 13 13	19 18 18

Specified location: 56 25 N 2 52 H Radiosonde source: 3170 56 25 N 2 52 H

Radiosonde station height: 16 Feet Surface cbs source: MS181 55 00 N 5 00 N

PERCEPT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR-ESM COM RANGES:

A PLACEL A OF COURT HE F	<i>Jr</i> <u>L</u>	ALTERIA	<u> </u>	3061	10.		<u> </u>		120.15				320.		
FREQUENCY	Y	EPRL'	Y	Ji	<u> </u>	R	RF.	R-J	JH	J!	JL-SI	EP	01	CT-D	EC
	day	ni:	den	day	nit	dan	day	nit	d&n	day	nit	dan	day	nit	d&n
190 MHz	Ø	0	0	0	0	3	0	8	8	1	1	1	. 0	8	0
i GHz	7	4	6	2	2	2	18	5	8	13	7	10	4	3	3
3 GHz	9	6	7	2	2	2	13	7	18	17	19	13	5	3	4
6 GHz	16	11	13	5	4	5	19	11	15	27	19	23	13	9	11
10 G4z	41	34	38	38	24	27	37	2€	32	51	43	47	49	41	45
28 GHz	63	58	61	57	54	55	56	47	52	68	63	66	72	67	69

SURFACE RESED BUCT SUMMARY:

FARAMETER	YEARL	Ÿ	JI	ลห-หเ	AR	A1	PR-JI	JH	J	UL-S	EP	ŏ	CT-DI	EC
	day_nit	din	day	nit	d&n	day	nit	dån	day	nit	dan	day	_nit	d&n
Percent occurrence	5 4	4	1	3	2	5	5	5	9	6	8	3	3	3
AVG thickness Kft	l	. 16	l		.12	l		.22	ĺ		.17	ł		. 14
RVG trap freq GHz	1	2.8	l		4.6	1		2.5	1		2.0			2.2
AVG lyr and -H/Kft	l	182	l		165			75	L		99			68

FI EVATED DUCT SUMMARY:

CONTROL OF STREET STREET, STREET STREET, STREE

PARAMETER	Yi	ERRL	Y	J	AH-M	AR	ล	PR-JI	UN	Jŧ	JL-SI	ÉP	9	CT-D	EC
	day	nıt	din	day	nit	d&n	day	១ដ	dkn	day	nit	dŁn	day	nit	d&n
Percent occurrence	4	6	5	2	4	3	5	- 6	6	5	8	7	4	4	4
BYG sop ht Kft			4.2			4.8			3.7			4.5	i		4.7
AVG thickness Kft	l		. 22			.20			.26			.24		_	.20
AVG trap freq GHz			1.3			1.8			1.8			1.0			1.4
AVG lyr grd -H/Kft	ŀ		56	İ		54	İ		58	l		59	l		54
AVG lyr base Kft			4.1	l		3.9	i		3.5	ŀ		4.3			4.5

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(*) INDICATES INSUFFICIENT DATA

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PEPCENT (OCCU	IRRENCE	Yi	EARLY	1	J1	an-Me	R.	A	オースし	314	21	ルーS	EΡ) 00	CT-DE	EC
			day	nit	d&n	day	rit	dîn	day	nit	d&n	day	nit	d&n	day	nit	dŧn
@ to	10	Feet	18	28	19	17	18	18	23	28	25	18	20	19	12	14	13
18 to 2	20	Feet	29	24	22	26	28	27	22	28	25	16	19	18	16	28	18
26 to 1	38	Feet	22	25	24	28	30	29	20	_21	21	18	_ 21	_26	24	27	25
30 to .	10	Feet	18	17	17	19	17	18	13	11	12	15	17	16	23	22	23
40 to 5	50	Feet	8	7	7	5	4	5	6	4	5	10	8	9	13	10	11
50 to 6	60	Feet	4	3	4	2	1	2	_ 3	2	2	6	5	5	5	4	5
68 10 1	78	Feet	2	1	1	1	8	8	2	1	1	3	2	2	2	1	1
78 10 8	80	feet	1	1	1.	8	₽	8	1	1	1	2	1	2	1	1	1
80 10 9	è&	Feet	1	- 8	1	9	0	. 0	1	1	1	1	_ 1	1	1_1_	8	0
90 to 1	128	Feet	8	9	9	0	8	0	ī	1	1	1	1	1	Ø	В	0
#DOV# 1	991	Feet	6	3	4	1	1	1	9	4	6	18	5	ટ	3	2	2
Hear he	ight	Feet	34	27	30	26	22	24	36	25	30	41	32	37	i 32	29	31

PARAMETER	YEARLY	JA	I-MAR	APR-JUH	JUL-SEP	OCT~DEC
I	day nit di	n day i	niz den	day nis dan	day nit dan	day nit dan
% occur ELASE dets		0	9	0	8	8
% occur 2+ EL dcts		8	8	8	8	9 1
AVG station N	33	2	31€	323	331	319
AVG station -H/Kft		3	12	13	14	13
AVG sfc uind K13	16 15 1	6 19	19 19	13 13 13	13 13 13	19 18 18

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

58 13 N 6 19 H (*) INDICATES INSUFFICIENT DATA Specified location: Radiosonde source: 3026 58 13 N 6 19 H Radiosonde station height: 43 Feet Surface obs source: MS181 55 09 N 5 00 H

PERCENI UC	CURRENCE !	UF E	MARK	LED	DURF	nLE-	10-5	URF 111	UE RI	אחעה	- E 311	LUN	700	0E3-		
FREQU	ENCY	Y	EARL'	7	J	AH-H	AR	A	PR-JI	JN	JI	JL-SI	EP .	0	CT-DI	EC
		day	nit	d&n	day	nit	d&n	day	ni t	d&n	day	nit	din	day	nit	den
100 M	Hz	1	0	1	Ø	0	8	1	1	1	1	- 8	1	1	- 8	1
16	Hz	8	4	6	3	2	2	11	6	9	13	7	10	5	3	4
3 G	Hz	10	6	8	4	2	3	14	8	11	16	9	13	7	_ 4	6
6 G	Hz	17	11	14	7	4	5	21	12	16	26	18	22	16	10	13
18 G	Hz	43	34	38	31	24	28	39	27	33	59	43	46	50	42	46
28 G	Hz	64	58	61	58	53	56	58	47	53	68	63	65	73	67	70

SOKEHIE BUSED DOCL	SURAL	KI:													
PARAMETER	YE	ARL	′	J	ห-หล	RR	A	PR-JI	JH.	- 31	UL-SE	P	ŏ	T-DI	EC
	day	nit	d&n	day	nit	dŁn	day	nit	d&n	day	nit	den	day	nit	dan
Percent occurrence	7	5	6	4	2	_ 3	9	6	- 8	8	5	7	7	5	5
AVG thickness Kft			. 15	1		. 14	i		. 18	ł	-	.14	•		. 14
AVG trap freq GHz	1		2.5	1		2.5	ł		2.6	i i		2.1			2.7
AVG lyr grd -N/Kft	<u> </u>		117	<u> </u>		114			120	Ĺ		95	Ĺ		137

FLEANIER DOCK ZOUNNI	<u> </u>				
PARAMETER	YEARLY	JAN-MAR	APR-JUH	JUL-SEP	OCT-DEC
L	day nit dan	day nit din	day nit dan	day nit din	day nit dan
Percent occurrence	4 4 4	2 2 2	4 4 4	7 6 7	2 2 2
AVG top ht Kft	3.0	2.7	1.8	3.2	4.8
AVG thickness Kft	.18	.19	.11	.24	.18
AVG trap freq GHz	2.1	2.1	3.4	1.0	1.9
AVG lyr grd -N/Kft	56	63	48	59	55
AVG lyr base Kft	2.8	2.6	1.7	3-1	3.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCEI	HT	occi	URRENCE	YE	ARL	′	J	AH-M	RR	AI	PR-J	111	J:	JL-SE	F	00	T-DE	EC
l				day	nit	dan	day	nit	d&n	day	nit	dŧn	day	กระ	dan	day	nit	din
8 1	ιo	10	Feet	18	28	19	17	18	18	23	28	25	13	28	19	12	14	13
10 1	t o	28	Feet	20	24	22	26	28	27	22	28	25	16	19	18	16	26	18
28 1	ō	38	Feet	22	25	24	28	39	29	28	21	21	18	21	20	24	27	25
30 1	i s	40	Feet	18	17	17	19	17	18	13	11	12	15	17	16	23	22	23
40 1	lo	58	Feet	8	7	7	5	4	5	6	4	5	10	8	9	13	16	11
56 :	to	60	Feet	4	3	4	_ 2	1	2	_3	2	2	- 6	5	5	5	4	_ 5_
60 1	10	7€	Feet	2	1	1	1	8	Э	2	ī	1	3	2	2	2	1	
76 :	0	88	Feet	1	1	1	8	Э	Ð	1	1	1	2	1	2	1	1	1
88 1	i o	98	Feet	1	8	1	_ 8	9	8	1_	1	1	1	1	1	1	- 8	Ü
98 1	ō	108	Feet	9	8	0	8	0	8	1	î	1	1	1	1	છ	8	6
abov	Je	100	Feet	6	3	4	1	ì	1	9	4	6	10	5	8	3	2	2
Mean	he	ight	Feet	34	27	39	26	22	24	36	25	38	41	32	37	32	25	31

PARAMETER	YE	ARL'	7	Jf	111-11	R	RF	R-J(JN:		IL-SE	P	90	T-11	ĘÇ
	day	nit	d&n	day	nit	dân	day	nit	d£n	day	nit	din	day	nit	din
% occur EL&SB dcts			8	· · · · ·		8			8			9			G
% occur 2+ EL dcts			6	l		0			8			ø			9
AVG station N			323	i		317			324			331			323
AVG station -N/Kft			13			13			14			14			13
AVG sic wind Kts	16	15	16	19	19	19	13	13	13	13	13	13	19	18	18

57 54 N 15 48 H (*) INDICATES INSUFFICIENT DATA Specified location: 57 54 N 15 48 H

Radiosonde source : 4YI

Radiosonde station height: 39 Feet Surface obs source: HS182 55 00 H 15 00 H

FRE	DUENCY	Y	EARL'			AN-MA			R-JL			JL-SI			CT-DE	
		day	nıt	d&n	day	nit	n3b	day	nit	dŁn	day	nit	dtn	day	nit	dtn
100	MHz	Ð	0	0	0	6	0	9	0	9	1	0	1	0	1	9
1	GHz	6	3	4	2	2	2	7	3	5	10	3	7	4	3	3
3	GHz	7	4	6	3	3	3	8	4	6	13	5_	9	5	4	5
6	GHz	16	- 9	12	9	6	8	16	8	12	24	11	17	14	12	13
18	GHz	46	38	42	45	41	43	43	30	37	49	36	43	47	44	45
26	GHz	67	62	65	78	69	70	63	56	59	67	58	62	69	67	68

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL	<u>r</u>	J	คห-ห	RR	A	PR-JI	UH	J	UL-S	EP	G	CT-D	EC
1	day	nit	dan	day	nit	d&n	day	nit	d&n	day	nit	dŁn	day	การ	den
Percent occurrence	5	- 5	5	4	5	5	3	3	3	9	4	7	4	7	6
AVG thickness Kft	ł		.17	l		.18	l		. 16	1		.17	1		. 15
AVG trap freq GHz			2.1	1		1.9	Į		2.3	1		1.9			2.4
AVG lyr grd -H/Kft			101			88			111			99	<u> </u>		104

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	J	H-HA	3R	- Al	R-J	JK	J	JL-S	EP	01	CT-DI	EC
	day	nit	d&n	day	nit	dŁn	day	nit	d£n	day	nit	d&n	day	nit	dŁn
Percent occurrence	4	3	4	2	2	2	5	- 4	5	6	5	6	3	2	3
RVG top ht Kft			4.2	ŧ		5.3	!		3.9	l		3.6	1		4.1
AVG thickness Kft			. 25			.24			.18	l		.29	l		.29
AVG trap freq GHz			1.1			1.2			1.2			.72	Γ		1.3
AVG lyr and -N/Kfs	İ		59	l		59	ļ		64			57	1		57
AVG for base Kft			4.8	1		5.1	l		3.7	•		3.4	1		3.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCC	URRENCE	YI	EARLI	Y	J1	AN-MI	R.	RI	7R-J	UH	JI	JL-Si	EP	80	CT-DE	EC
{			day	nit	dan	day	nit	d&n	day	การ	d&n	day	nit	d&n	day	nit	nst
03 13	10	Feet	17	19	18	14	14	14	19	22	21	20	22	21	16	16	16
18 to	28	Feet	17	28	19	16	18	17	19	24	21	16	21	19	16	18	17
_ 20 to	30	Feet	22	25	24	26	_28	27	21	25	23	19	23	21	22	24	23
30 to	40	Feet	19	28	20	24	26	25	18	17	17	16	17	17	20	22	21
48 10	50	Feet	12	9	18	13	19	11	10	6	8	11	8	10	14	11	13
58 to	60	Feet	5	3	4	i 4	3	4	4	2	3	6	4	. 5	ε	5	5
60 to	79	Feet	2	1	2	1	1	1	2	1	1	2	2	2	2	1	2
78 to	80	Feet	1	8	1	8	8	8	1	1	1	2	1	1	1	1	ı
89 to	98	Feet	8	0	0	8	Ð	8	1 1	8	1	1	0	1	9	8	0
90 to	:00	Feet	0	8	8	0	9	9	1	9	9	1	9	8	8	9	0
above	166	Feet	4	1	3	1	9	9	6	2	4	7	2	4	2	1	2
Hear h	<u>r i gh</u>	t Feet	33	26	29	28	26	27	34	25	30	37	26	32	31	27	29

PARAMETER	YE	ARL'	۲	Jf	H-H	AR	A)	'R-Ji	NH H	J1	UL-S!	EP	O	CT-D	EC
	day	201	d&n	day	nit	din	day	nit	d&n	day	211	420	day	011	din
% occur EL&SB dcts			8			- 8			0			Ð			Ð
% occur 2+ EL dcts			8	i		9	ŀ		8			8			9
AVG station N			321	ļ .		316	ļ		322			330	l		317
RVG station -N/Kft			13			12	i		13			14			13
AVG sfc wind Kts	19	18	13	23	53	23	16	:6	16	15	15	15	21	20	20

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 52 18 N 20 12 H (*) INDICATES INSUFFICIENT DATA Radiosonde source: 4YJ 52 18 N 20 12 H

Radiosonde station height: 39 Feet Surface obs source: MS183 55 00 N 25 00 N

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESH/COM RANGES:

FREQUENCY	Y	EARL'	7	JI	AN-H	AR.	នា	PR-JI	JH	JI	JL-SI	P	01	CT-DE	EC
	day	nit	dŧn	day	nit	din	day	nit	d£n	day	nit	dŁn	day	nit	dån
100 MHz	8	8	- 0	8	. 9	- 0	0	6	- 8	1	8	8	8	1	8
1 GHz	1 4	2	3	2	2	2	4	2	3	6	3	4	3	3	3
3 GHz	5	3	4	3	3	3	5	3	4	9	4	6	_ 4	4	4
6 GH≥	13	- 9	11	10	10	10	11	- 6	8	17	- 9	13	14	11	12
10 GHz	47	43	45	52	52	52	43	35	39	42	36	39	51	48	50
20 GHz	68	67	67	74	76	75	63	68	62	62	59	61	73	71	72

SUPERCE RASED DUCT SUMMARY.

SUMPRIE BROED DUCT :	SUMMER :				
PARAMETER	YEARLY	JAN-HAR	RPR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit d&n	day nit dan	day nit dan	day nit dan
Percent occurrence	4 4 4	4 5 5	1 2 2	5 3 4	5 6 6
AVG thickness Kft	.19	.21	.20	.21	.14
AVG trap freq GHz	2.8	1.9	2.1	1.5	2.4
AVG lyr grd -N/Kft	122	164	181	74	68

ELEVATED DUCT SUMMARY:

STEANIER DOCT SOULUL	<u> </u>														
PARAMETER	Y!	ARL'	Υ]	AN-H	AR	A	PR-J	UH	J	UL-S	EP	0	CT-D	EC
	day	nit	din	day	nit	din	day	nit	d&n	day	nit	dŁn	day	nit	dtn
Percent occurrence	9	8	8	5	- 6	- 6	7	-9	8	13	11	12	9	7	8
AVG top ht Kft			4.4	ſ		4.9	ĺ		4.2	ĺ		4.2			4.4
AVG thickness Kft			.30			.29	Ĺ		.38	L		.31			.28
AVG trap freq GHz			.72			.69			.66	1		. 67			-85
AVG lyr grd -N/Kft			57	1		56	ļ.		56	ı		56	ĺ		62
AVG lyr base Kft	_		4.2	<u> </u>		4.6	L _		4.0	<u>.</u>		4.0	L		4.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCURRENCE	YI	EARL	Y	J	AH-HI	AR	A!	PR-J	H	Ji	JL-SI	P	01	T-DE	EC
L		day	nit	d&n	day	nit	d&n	day	nit	din	day	nit	den	day	nit	din
0 10	18 Feet	17	17	17	12	11	11	18	19	19	21	23	22	15	15	15
10 20	20 Feet	16	18	17	14	15	14	18	21	20	18	19	19	13	15	14
28 to	30 Feet	22	24	23	23	25	24	21	26	23	21	_23	22	22	24	23
38 to	48 Feet	22	23	22	26	28	27	28	21	21	17	18	17	24	25	24
40 10	50 Feet	13	12	12	16	15	15	12	8	10	9	9	9	15	14	14
55 tc	68 Feet	<u> 6</u>	4	5	6	5	6	4	_ 2	_ 3	5	. 5	_ 5	7	. 6	7
60 to	70 Feet	1		1	1	1	1	1	1	1	2	1	-2	2	1	1
78 to	88 Feet	1	Θ	Ø	0	9	0	1	0	8	1	8	1	1	0	U
88 10	98 Feet	6	8	Θ	0	8	0	9	0	8	1	8	_ 8	. 0		ย
90 to	100 Feet	8	- 8	9	9	- 6	Θ	Ð	8	0	1	9	6	9	0	C
above	100 Feet	2	1	2	Θ	1	0	4	2	3	4	1	3	1	1	1
Hean he	ight Feet	31	27	29	30	29	38	32	26	29	32	26	29	30	_28	29

PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day ni: din	day nit dan	day nit dan	day nit dan
% occur EL&SB dcts	8	8	8	9	3
% occur 2+ EL dcts	1	8	8	1	1
AVG station N	327	321	326	335	325
RVG station -N/Kft	14	13	13	15	14
AVG sic wind Kts	20 28 28	24 24 24	17 17 17	16 16 16	23 22 22

Specified location: 52 42 N 35 30 H (*) INDICATES INSUFFICIENT DATA Radiosonde source: 4YC 52 42 N 35 30 H

Radiosonde station height: 39 Feet Surface obs source: MS184 55 88 N 35 88 N

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/FSM COM RANGES:

PERCENT (OCCURRENCE	OF EI	HANC	ED S	SURFI	RCE-	<u> </u>	URFA	E RI	IDAR	ESI	COM	RAN	GES:		
FREC	DUENCY	YI	EARLY	′	J	AN-MA	R R	AI	R-JI)N	31	UL-SI	EΡ	01	CT-DI	EC
L		day	nit	d&n	day	nit	dŁn	day	nit	d&n	day	nit	d&n	day	nit	d&n
100	MHZ	0	6	- 0	0	0	- 0	0	9	- 0	1	0	- 0	8	0	- 9
1	GH=	4	2	3	1	2	1	6	2	4	7	2	4	1	1	1
3	GHz	5	2	4	1	3	2	8	3	5	9	3	6	_ 1	1	1_
6	GHz	9	5	7	4	5	4	13	5	9	14	7	10	6	4	_ 5
18	GHz	32	27	29	29	29	29	34	23	28	33	27	30	33	29	31
20	GH2	55	58	52	57	56	57	54	45	49	49	46	47	58	54	56

SUPFACE	RASED	DHICT	SHMMARY:

SOME DESCRIPTION OF A	<u> </u>					_									
PARAMETER	Y	EARL'	Υ	J	ห-หล	AP.	Ri	PR-J	אט	10	UL-\$1	EP.	0	CT-DE	EC
l	day	nit	din	day	nit	dŁn	day	nit	dŁn	day	nit	d&n	day	nit	dtn
Percent occurrence	4	2	3	2	4	3	4	1	3	7	2	5	1	2	— <u>-</u>
AVG thickness Kft			.22			. 15	1		.17	1		.31	1		.24
AVG trap freq GHz	ì		2.3			2.2	i .		2.7	ı		1.7	ì		2.5
AVG lur and -H/Kft	ŀ		142	1		135	l		173	ı		99			161

FLEVATED DUCT SUMMARY:

STREET ST

PARAHETER	Y	EARL	Y	- 31	AH-M	ìR	A!	アーカリ	JH	31	JL-SE	?	00	CT-DI	EC
i	day	nit	dan	day	១11	d&n	day	nit	dan	day	nit	d&n	day	nit	dan
Percent occurrence	20	23	21	11	12	12	28	25	23	27	33	38	20	23	22
AVG top ht Kft	l		4.5			4.9	ĺ		4.3			4.2	1		4.8
AVG thickness Kft	L		.32			.25	í		.33			.41			.31
AVG trap freq GHz			.59			.92			.51			.43			ั.5ง
AVG lyr grd -N/Kft			61			58	1		66	}		69			68
AVG lyr base Kft	•		4.3			4.7	l		4.1			3.8			4.5

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EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCC	URRENCE	YI	EARL'	7	J	AN-M	AR	AI	R-J	ÜH	J	JL-S	EP	0	CT-DI	EC
			day	nit	dŁn	day	nit	din	day	nit	dŁn	day	nit	dŧn	day	nit	din
0 to	10	Feet	26	27	26	22	22	22	27	29	28	33	32	33	23	23	23
10 to	20	Feet	26	24	22	29	23	22	21	26	24	21	23	22	19	23	21
20 to	30_	Feet	23	24	23	28	28	28	21	22	21	17	19	18	26	25	25
30 to	40	Feet	16	16	16	19	18	19	15	14	15	13	14	13	18	18	18
40 to	50	Feet	7	6	6	6	6	6	6	4	5	7	6	7	! ક	6	7
53 to	68	Feet	3	2	2	2	1	2	3	2	2	3	_ 2	3	4	2	3
58 10	70	Feet	1	1	1	9	0	-0	1	8	1	1	1	1	1	1	1
78 to	89	Feet	1	9	а	0	0	8	1	8	1	1	9	1	9	0	e
50 to	98	Feet	Θ	8	0	8	8	. 0	_1_	Ð	8	_ e	_ 8	. 0	8	. 0	8
98 to	100	Feet	0	. 0	-0	0	9	0	8	9	0	9	9	9	8	8	9
above	189	Feet	3	1	2	9	8	8	5	2	3	4	1	3	1	9	1
Hean h	igh	t Feet	25	22	24	22	22	22	29	21	25	26	21	24	24	22	23

Y!	EARL'	٧	Ji	an-M	RR	l ar	ペーチ	1H	JU	JL-SI	ÉP	00	T-DE	EC
day	nit	đěn	day	nit	din	day	nit	din	day	nit	din	dav	กาะ	dtn
i		- 0			- 6			0			ī			— ō
1		2			1	l		3	i		4	ì		2
ı		322	ł		315	l		320	į		332	ì		321
1		13	i		12	i		12	ļ		14	i		12
19	19	19	23	23	23	16	16	16	16	16	15	22	21	22
	day	day nit	9 2 322	day nit dan day 0 2 322 13	day nit dan day nit 0 2 322 13	day nit din day nit din 0 0 2 1 322 315 13 12	day nit dan day nit dan day	day nit dtn day nit dtn day nit 0 0 2 1 322 315 13 12	day nit din day nit din day nit din day nit din 0 0 0 2 1 3 322 315 320 13 12 12	day nit dan day nit dan day nit dan day 0 0 2 1 322 315 13 12 12 12	day nit dtn day nit dtn	day nit din 2 322 315 320 322 3	day nit dan day nit dan day nit dan day nit dan day day nit dan day nit dan day nit dan day 0 0 1 2 1 3 4 322 315 320 332 13 12 12 14	day nit dtn day nit

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 55 00 N 45 00 N (*) INDICATES INSUFFICIENT DATA

Radiosonde source: 4YB 56 30 N 51 00 N Radiosonde station height: 39 Feet

Surface obs source: MS185 55 00 N 45 00 H

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

CHOCKE GOODWINGHOOF			<u> </u>			3 IV IV V V					****			
FREQUENCY	YEAR	LY	J	N-M	36	Ai	PR-JI	UN	JI	JL-SE	Ρ	ŏ	CT-DE	EC
	day ni	t din	day	nit	d&n	day	nit	d&n	day	nit	dŁn	day	nit	dkn
160 MHz	8	6 6	9	- 6	- 8	0	9	0	8	В	Ø	Ø	9	- 6
1 GHz	3	1 2	2	1	1	3	1	2	6	4	5	1	8	1
3 GHz	4	2 3	3	2	2	4	1	2	7	5	6	2	6	1
6 GHz	7	4 5	4	3	4	7	1	4	12	8	10	5	2	3
10 GHz	24 1	9 22	23	17	28	28	13	16	29	25	27	26	19	23
20 GHz	48 4	4 46	53	59	<u>51</u>	39	38	38	_45	_46	45	_53	44	49

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARL'	Y	J	AN-MA	R	A!	R-J	JH	31	JL-SI	Ρ	0:	CT-DI	EC
_	day nit	d&n	day	nit	dŁn	day	nit	dan	day	nit	d&n	day	nit	dån
Percent occurrence	2 2	2	4	3	4	0	-0	8	3	4	4	2	8	1
AVG thickness Kft		. 16	l .		.13			. 10			.22			. 18
AVG trap freq GHz		3.4	Į		3.9			7.8			1.2			1.4
AVG lyr grd -N/Kft		118			79			149			129			113

ELEVATED DUCT SUMMARY:

PARAMETER	Ÿ	EHRL'	γ	J	AH-N	AR	R1	- R-JI	HU	31	JL-SI	EP	00	T-DI	EC
	day	nit	din	day	nit	d&n	day	nit	d&n	day	nit	dan	day	nit	din
Percent occurrence	14	17	16	7	4	6	18	22	20	20	27	24	10	16	13
AVG top ht Kft	i		3.7	ļ		3.6	i		3.3	l		•			4.1
AVG thickness Kft		_	.26	.		. 18			. 27		_	.36			.21
AVG trap freq GHz			1.1			1.6			.86			.45			1.6
AVG lyr grd -N/Kft			57			54	l		63						53
AVG lyr base Kft			3.4	Ĺ		3.5			3.1			3.3			3.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCE	HT	OCC	JRRENCE	YE	ARLY	1	J	AN-MI	P.R	AF	R-JU	M	31	L-SE	P	00	T-DE	EC
				day	nit	dŧn	day	nit	din	day	nit	den	day	nit	din	day	nit	den
9	to	10	Feet	27	27	27	20	19	19	31	32	31	34	31	33	22	24	23
10	to	20	Feet	27	39	28	29	33	31	30	38	39	22	26	24	25	31	28
20	to	30	Feet	23	26	25	30	33	32	19	25	22	17	21	19	27	25	<u> 2</u> 6
30	to	40	Feet	13	11	12	14	11	13	9	- 9	. 9	11	12	12	16	13	15
48	to	50	Feet	5	4	4	5	2	4	3	3	3	5	5	5	6	4	5
59	10	68	Feet	2	1	1	1	0	1	2	8	1	3	2	2	2	1	2
60	to	78	Feet	1	8	1	0	8	8	1	8	1	1		1	0	0	G
79	10	88	Feet	9	9	0	0	9	8	1	0	0	1	в	1	8	9	9
89	to	98_	Feet	. 0	0	_0	0	. 0	9	i_ 9_	. 8	Θ	1	_ 0	. 8	_ 8	8	9
98	10	100	Feet	0	0	9	8	9	0	8	9	0	8	1	1	8	0	O
ābo	ove	100	Feet	2	3	1	0	9	0	3	1	2	5	2	3	1	8	0
Hear	n he	eiahi	Feet	23	28	21	21	19	28	22	17	28	25	22	23	22	20	21

PARAMETER	YE	ARL	<i>*</i>	JF	in-Hi	₹R	AF	アーノリ	JN -	Ju	ルーSI	P	00	:T-DI	EC
	day	nit	dŁn	day	nit	dkn	day	nit	dŧn	day	nit	dŁn	day	nit	dtn
% occur ELASB dcts			- 8			- 0			- 6			9			В
% occur 2+ EL dets			2	}		8			1			4	1		1
RVG station N			311	ļ.		311	i		295			323			313
AVG station -N/Kft			10	I		11	ĺ		5.5			14	[11
AVG sfc uind Kts	20	19	28	26	25	25	17	16	17	15	15	15	23	21	22

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Specified location: 56 30 H 51 00 W (+) INDICATES INSUFFICIENT DATA

Radiosonde source : 4YB 56 30 H 51 00 W

Radiosonde station height: 39 Feet

Surface obs source: MS186 55 88 H 55 88 H

PEPCENT OCCUPRENCE OF ENHANCED SUPERCE-TO-SUPERCE RADAR/FSN.COM PRICES:

Г	FREC	VENCY	Y	EARL	7	31	1H-HF	₹R	H:	7F-JU	JH.	Jŧ	JL-SI	P	0	CT-DE	EC
1			day	nıt	dån	day	nit	din	day	nit	d&n	day	nit	can	day	ni t	dan
Г	100	HHZ	8	0	9	0	8	8	0	8	0	8	6	8	0	8	9
1	1	GHz	lз	2	3	1	1	1	3	2	3	€	3	5	3	1	2
ı	3	GHz	5	2	3	2	2	2	5	2	3	8	4	ε	4	1	2
Г	6	GHz	6	3	5	3	2	3	7	3	5	11	6	8	6	1	3
1	10	GHz	13	8	18	6	6	6	12	6	9	19	12	16	13	8	13
L	28	GHz	27	_23	25	23	29	2€	23	14	19	31	24	28	39	25	27

SURFACE BASED DUCT SUMMARY:

PARAMETER	YE	ARL'	Y	J	AH-H	ìR	RI	PR-J	JH	J	JL-SI	ΕP	00	CT-01	EC
	day	nit	dan	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	4	3	4	0	6	8	3	4	4	2	0	
AYG thickness Kft			.16	1		.13	l		. 10	l		.22	i		. 18
RYG trap freq GHz	i		3.4	ı		3.9	l		7.0	ł		1.2	ł		1.4
AVG for and -N/Kft	i		118	ı		79	l		149	ł		129	ł		113

ELEVATED DUCT SUMMARY:

Freauten noct South	(1)														
PARAMETER	Y	EARL'	¥	J1	าห-หเ	R.	A	R-11	JN	J	JL-SE	EP	00	CT-DI	EC -
	day	nit	d&n	day	nit	d&n	day	nıı	dân	day	nit	dkn	day	nit	din
Percent occurrence	14	17	16	7	4	6	18	22	20	28	27	24	10	16	13
AVG top ht Kft			3.7			3.6	1		3.3			*			4.1
AVG thickness Kft			.26	<u> </u>		.18	L		.27			.36			21
AVG trap freq GHz			1.1			1.6			.86			.45			1.6
AVG lyr grd -N/Kft			57			54			63	ł		*	i		53
AVG lyr base Kft	L		3.4	L		3.5	L		3.1			3.3	l		3.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCC	URRENCE	YI	ARL	′	J	RN-M	R	, AF	R-J	ĵii	JI	JL-SE	Р	00	T-DE	C
L			day	nit	d&n	day	nit	dan	day	nit	dkn	day	nit	din	day	nit	dîn
0 10	10	Feet	44	44	44	40	32	36	51	56	54	18	52	50	37	38	37
10 to	28	Feet	31	33	32	48	40	49	25	30	27	23	25	24	35	37	36
28 to	30	Feet	14	15	15	17	_23	26	11	7	9	13	12	12	17	17	17
30 to	40	Feet	5	4	4	3	4	3	5	2	3	6	5	6	6	6	ē
40 to	58	Feet	1	1	1	9	9	8	1	1	1	2	2	2	1	i	1
50 to	_69	Feet	1	8	1	_ a	. 0	0	_ 1	8	1	1	9	1	1	8	1
68 10	76	Feet	0	- 0	8	e	 9	0	8	0	8	1	1	1	0	0	0
78 to	80	Feet	9	9	0	0	9	8	0	9	0	1	8	1	9	8	8
_ 88 10	98	Feet	0		. 8	0	0	0	_ 0	. 0	8	1	9	8	6	ß	8
90 to	100	Feet	9	8	8	0	9	9	1	8	0	1	8	0	8	Ø	9
above	100	Feet	3	1	2	0	0	8	२	2	3	5	1	3	2	1	1
Hean h	e i gh	t Feet	17	14	16	13	15	14	18	13	15	21	14	18	17	15	16

PARAMETER	YE	HRL	Υ	Jf	111-11	AR	AF	R-J	אנ	J	JL-SI	P	00	T-DE	ε.
	day	nit	dan	day	nit	Jan	day	nit	d&n	day	nit	dan	day	nit	đ ě n
% occur EL&SB dcts			8			0			- 8			Θ			6
% occur 2+ EL dcts	i		2	1		9			1	İ		4.	l		1
AVG station N	l		311			311	İ		295	ł		323	l		313
AVG station -N/Kft	l		10	•		11			5.5			14	1		11
AVG sfc wind Its	19	18	18	23	23	23	16	15	15	15	15	15	28	19	28

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

Specified location: 58 06 N 68 25 N (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 72906 58 06 N 68 25 H

Radiosonde station height: 102 Feet Surface obs source: MS186 55 00 N 55 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUE	UCV I	EARL		7.4	N-M	20	-	R-JU	13.2	7.	JL-SI	-0		T-DE	
PREGUE															
L	day	nit	d <u>&</u> n	day	<u>nit</u>	den	day	nit	din	day	nit	<u>d&n</u>	day	nit	d&n
186 MH:	z E	e	8	0	6	8	0	9	6	9	0	9	0	9	8
1 GH:	z 3	1	2	ļ ø	9	0	4	2	3	5	2	4	2	1	1
3 GH:	z 4	2	_3	_1	8	0	_5	_2	4	6	3	5	3	1	2
6 GH:	z S	2	4	1	0	1	?	4	5	9	4	7	.4	1	3
10 GH:	z 12	?	10	5	4	4	13	7	10	18	11	14	11	8	9
28 CH:	z 26	23	24	21	27	24	24	14	19	39	23	27	29	25	27

SOKEMEE BUSED DOC!	SUNNHRY:				
PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit den	day nit dan	day nit dan	day nit dan
Percent occurrence	1 1 1	1 0 1	1 1 1	1 3 2	0 0 0
AVG thickness Kft	.16	.16	.22	.12	.13
AVG trap freq GHz	3.5	4.7	2.4	2.5	4.5
AVG lyr grd -N/Kft	128	139	107	83	181

ELEVATED DUCT SUMMAN	₹ <u>₹</u> :														
PARAMETER		ARL	-		AN-M			R-J			UL-S			CT-DI	
L	day	nit	d&n	day	nit	din	day	nit	d&n	day	กระ	d&n	day	nit	den
Percent occurrence	4	4	4	2	1	2	5	3	4	8	3	8	2	3	3
AVG top ht Kft	i		5.0			4.2	1		5.7	j		6.1	1		4.3
AVG thickness Kft			.17			.13	ì		.16			.24			.17
AVG trap freq GHz			2.7			4.1	[3.8			1.1			2.0
AVG lyr grd -H/Kft	l		57			58	1		55	<u> </u>		59	1		55
AVG lyr base Kft			4.9	<u>L</u>		4.1	<u> </u>		5,5	<u> </u>		5.9	<u> </u>		4.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT OC	CURRENCE	Y	EARL'	ľ	J	AN-M	R	Ai	PR-JI	JN	31	JL-SI	ΕP	00	T-DE	C
		day	nit	d&n	day	nit	din	day	nit	din	day	nit	dŁn	day	nit	d&n
8 to 10	Feet	14	44	44	40	32	36	51	56	54	48	52	58	37	38	3.7
18 to 20	Feet	31	33	32	48	48	40	25	38	27	23	25	24	35	37	36
20 to 30	Feet	14	15	15	17	23	_28	11	7	9	13	12	12	17	17	17
30 to 46	Fees	5	4	4	3	4	3	5	2	3	6	5	6	6	6	િંદ
40 to 50	Feet	1	1	1	Θ	0	8	1	1	1	2	2	2	1	1	1
50 to 60	Feet	1	8	1	. 8	8	0	_ 1	0	1	1	8	1	1	8	i
60 to 70	Feet	8	0	8	8	8	9	ð	8	8	1	1	1	Θ	0	6
70 to 80	Feet	0	9	9	0	8	0	6	9	8	1	0	1	9	Θ	Э
80 to 90	Feet	9			9	0	8		0	0	. 1	0	9	8	0	3
98 to 18	0 Feet	9	8	9	8	8	0	1	0	0	1	8	e	0	8	в
above 10	0 Feet	3	1	2	8	9	8	3	2	3	5	1	3	2	1	1
Hean heig	ht Feet	17	14	16	13	15	14	18	13	15	21	14	18	17	15	16

STUCKUE UF LEGITORS		<u>•</u>										_	
PARAMETER	YEARL	•		N-MAR		PR-JU			iL-SE			T-DE	
	day nit	d&n	day	nit d&	ı day	nit	dtr.	day	nit	din	day	nit	dan
% occur EL&SB dcts		Θ	[)		8			8			0
% occur 2+ EL dcts]	8	l) 		0			0			0
AVG station N	[315	l	318	3 [:	312			318	i		312
AVG station -H/Kft	ŀ	12	1	13	3		12			12	i		12
AVG sfc wind Kts	19 18	_18	23_	23 23	16	15	15	15	15	15	28	19	28

Specified location:

F

Radiosonde source : 72811 30 13 H 66 16 W

Radiosonde station height: 180 Feet

Surface obs source: MS151 45 00 H 65 00 W

CONT OCCUPATION OF ENGINEER CUREOUS TO CUREOUS DATOR/FOR PONCES.

50 13 N 66 16 N

	PERCENT (DCCOPSENCE	OF EI	инны	י עבו	5081	HCF-	10-51	JKFHI	E KI	IDHK .	EST	<u> </u>	M \$4141	<u> </u>		
	FRE	QUENCY		EARL'			AN-MA			R-JU			JL-SI			CT-DE	
			day	nit	d&n	day	nit	dkn	day	กาเ	d&n	day	nit	dŧn	day	nit	dtn
ľ	100	HHz	8	8	0	0	9	9	0	8	8	1	1	1	0	9	Ú
	1	GHz	7	5	6	2	1	2	8	5	7	13	9	11	4	2	3
	3	GHz	9	7	8	2	2	2	10	8	9	16	13	15	6	4	5
	6	GHz	18	16	17	8	7	7	17	15	16	28	25	26	19	16	17
	19	GHz	36	34	35	24	23	23	28	2?	27	43	43	43	47	42	44
		GHz	49	49	49	41	41	41	38	37	37	53	55	54	65	62	64

CUDENCE PACED BUCT CHMMADY.

PARAMETER	YI	ARL	Ÿ	J	RN-M	R.	AI	R-J	JH	J	JL-SI	Ρ	00	T-DE	EC .
	day	nit	d&n	day	nit	d&n	day	nit	dån	day	nit	dŁn	day	nit	d&n
Percent occurrence	2	3	3	1	8	1	1	5	3	4	7	6	1	1	1
AVG thickness Kft			.22			. 17			.23	l		.28	l		.23
AVG trap freq GHz	ĺ		2.0			3.3	1		2.0	l		1.0	1		1.7
AVG lyr and -N/Kft			110	<u> </u>		162	<u> </u>		92	L		86	L		100

PARAMETER	Y	EARL'	Y	J	AN-MI	AR.	អា	R-J	UN	JI	UL-S!	EP	0	CT-PI	EC
	day	nit	d&n	day	nıt	dtn	day	nit	d&n	day	nit	d&n	day	nit	dan
Percent occurrence	5	6	- 6	2	2	_ 2	5	6	6	9	11	18	4	5	5
AYG top ht Kft	•		6.0)		4.8	l		6.3	j .		7.6	1		5.2
AVG thickness Kft	İ		.21	l		.16	<u> </u>		.18	<u> </u>		.32			.20
AVG trap freq GHz			1.9			3.1	1		2.1			.57			1.6
RVG lyr and -N/Kft			56	ĺ		55	l		54	!		60	ı		54
AVG lur base Kft	i		5.8	l		4.7	l		6.2			7.4	l		5.8

PERCENT OCCURRENCE	YE	ARL.	Y	J	RH-MI	RR	81	-R-J	JK	J	UL-SI	EP	01	CT-DE	EC
	day	nit	d&n	day	nit	<u>d&n</u>	day	nit	d&n	day	nit	d&n	day	nit	d&n
8 to 18 Feet	34	34	34	31	31	31	48	48	48	38	36	37	19	21	20
10 to 20 Feet	17	19	18	27	27	27	16	18	17	11	12	11	15	17	16
20 to 30 Feet	14	15	15	17	18	18	10	10	10	18	12	11	19	28	19
30 to 49 Feet	11	11	11	11	11	11	7	8	7	8	11	9	17	16	16
40 to 50 Feet	7	7	7	6	5	5	4	5	4	7	8	8	12	16	11
50 to 60 Feet	5	_ 5	<u>5</u>	3	3	3	3	3	3	6	6	- 6	7	7	_ 7
60 to 70 Feet	3	3	3	1	1	1	2	2	2	4	4	4	4	4	4
70 to 80 Feet	2	1	2	1	8	1	1	1	1	2	2	2	2	2	2
80 to 90 Feet	1	1	1	9	8	9	1	1	1	2	1	1	1	1	1
90 to 100 Feet	1	1	1	0	8	8	:	1	1	1	1	1	1	1	1
above 100 Feet	6	3	5	2	1	2	8	4	6	11	6	9	4	2	3
Mean height Feet	31	27	29	23	21	22	28	22	25	39	35	36	34	31	33

PARAMETER	YI	YEARLY day nit don d			Att-Ki	AR .	RI	マネーゴリ	JN	Jŧ	ルータ	EΡ	90	ות-ד:	EC
	day	nit	den	day	nit	den	day	nit	dan	day	nit	d&n	dey	nit	dan
% occur EL&SB dcts	1		8			Ð			9			9	<u> </u>		0
% occur 2+ EL dcts			0			8	ĺ		8			1			0
AVG station N	İ		317			311	!		314			329	Į		312
AVG station -H/Kft	l		12			11	ĺ		12	1		14	1		12
AVG sfc wind Kis	16	16	16	28	19	20	14	14	14	12	12	12	18	17	18

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 58 27 N 78 07 W

Radiosonde source: 72907 58 27 N 78 07 W

Radiosonde station height: 16 Feet Surface obs source: MS186 55 00 N 55 00 W

PERCENT OCCUPRENCE OF ENHANCES SURFACE-TO-SURFACE RABAR/ESM COM RANGES

PERCENT OCCURRENCE	OF E	HHAN	CED :	SURF	ACE-	ro-si	JRFA	CE RI	ADAR.	<u> ESM</u>	COM	RANG	GES:		
FREQUENCY	Y	EARL'	Υ	J	an-Me	R.	A!	PR-J	JN	31	JL-SI	P	00	CT-DE	EC
	day	nit	_d&n	day	nıt	d&n	day	nit	d&n	day	nıt	d&n	day	nıt	dan
100 MHz	8	- 6	0	8	0	Ø	0	0	9	0	9	8	8	- 8	e
1 GHz	3	2	2	1	0	0	4	2	3	7	3	5	2	1	1
3 GHz	4	_ 2	_ 3	1	0	_1	5	3	4	8	4	6	3	_ 1_	2
6 GHz	6	3	4	2		1	7	4	5	11	6	9	4	2	3
10 GHz	12	8	10	5	4	4	13	7	10	20	.2	16	11	8	18
20 GHz	27	23	25	21	27	24	24	14	19	32	24	28	29	26	27

(*) INDICATES INSUFFICIENT DATA

SURFACE BASED DUCT SUMMARY:

SOKEHOE BUSEN NOCE :	SUMMEN :													
PARAMETER	YERRL	Υ	J	RN-M	AR	Ai	PR-J	UH	3	UL-S	EF	0	CT-DI	EC -
	day nit	d&n	day	nit	dån	day	nıı	d&n	day	nit	dån	day	_nit	dan
Percent occurrence	2 2	2	1	- 0	1	1	1	1	4	4	4	0	1	1
AVG thickness Kft		.23	ĺ		.29	l		.20	l		. 22	l		. 20
AVG trap freq GHz		1.7	1		2.1	ĺ		1.9	1		1.1			1.5
AVG lyr grd -N/Kft		120	l		149			102			86	L		153

FLEVATER BUCT SUMMARY:

PARAMETER	YI	EARL	ζ ,	31	H-HI	RR	AF	P-71	JН	J!	JL-SI	ĒΡ	00	CT-DI	Ev
	day	nit	d&n	day	nit	d&n	day	กเร	d&n	day	nıt	d&n	day	ni t	din
Percent occurrence	8	7	7	2	1	2	9	6	8	16	15	16	5	5	5
AVG top ht Kft			3.1	i		2.6			2.8	l		4.2			2.9
AVG thickness Kft			.21	l		. 15			.19	i		.28	İ		.19
AVG trap freq GHz			1.6			2.0			1.2			.73			2.5
AVG lyr grd -N/Kft			58			68			54			57	1		54
AVG lyr base Kft			3.0	l		2.5			2.7			4.0	l		2.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PERCENT C	CCURRENCE	YE	RRL	'	J	H-MI	38	AF	R-JU	JH	Jt	JL-SE	P	00	T-DE	:C
		day	nit	d&n	day	nit	dEn	day	nıt	<u>d&n</u>	day	nıt	d&n	day	nit	din
0 to 1	0 Feet	44	44	44	40	32	36	51	56	54	48	52	50	37	38	37
10 to 2	9 Feet	31	33	32	40	40	48	25	30	27	23	25	24	35	37	36
20 to 3	8 Feet	14	15	15	17	23	28	11	7	9	13	12	12	17	17	17
30 to 4	0 Feet	5	4	4	3	- 4	3	5	2	3	6	5	6	6	6	_ 6
40 to 5	0 Feet	1	1	1	8	Θ	0	1	1	1	2	2	2	1	1	1
_ 50_to_6	0 Feet	1	0	1	9	0	- 0	_ 1_	. 0	1	_ 1	9	1	1	0	1
68 to 7	8 Feet	8	0	9	0	8	- 0	0	0	0	1	1	1	0	9	Ü
78 to 8	0 Feet	0	0	8	9	8	0	9	9	9	1	9	1	0	Θ	0
80 to 9	8 Feet	0	Ø	0	. 0	_ 0	9	_ 0	8	0	1	. 0	9	0	. 0	0
98 to 1	00 Feet	0	0	0	8	9	0	1	0	G	1	0	9	0	б	0
above 1	00 Feet	3	1	2	0	9	8	3	2	3	5	1	3	2	1	1
Mean hei	ght Feet	17	14	16	13	15	14	18	13	15	21	14	18	17	15	16

PARAMETER	Ϋ́Ε	ARL'	,	Jí	iH-M	AR	AF	R-Ji	אנ	3(JL-SI	EP	00	T-DE	:0
	day	nit	dan	day	nit	d&n	day	nit	dln	day	nit	d&n	day	nit	d&n
% occur ELESB dcts			8			- 0			0			1			0
% occur 2+ EL dcts	1		Ð			8			1			1			0
AVG station N	l		317			321	l		314			320			313
AVG station -N/Kft	ı		13			14			12			13	ŀ		12
AVG sfc wind Kt.	19	18	18	23	23	23	16	15	15	15	15	15	28	19	20

TREPS PEV 2.1 hISTORICAL PROPAGATION CONDITIONS SUMMAPY

Specified location: 51 16 N 80 39 W (*) INDICATES INSUFFICIENT DATA Padiosonde source: 72836 51 16 N 80 39 H

Radiosonde station height: 30 Feet

Surface obs source: HS151 45 00 N 65 90 H

<u>PEPCENT OCCUPRENCE OF ENHANCED SUPFACE-TO-SURFACE RADAP/ESH/COM RANGE</u>

FEPCENT U	CCURRENCE (<u> </u>	MARIN	י עםן	SUFF	nt E-	10-50	JKFM	LE FI	HUNP	_E3H	7 C UF4	RHIN	5655		
FREQ	UEHCY	Y	EARL	Υ .	J	RN-MI	ìR	A!	PR-JI	UN .	J	JL-SI	ΕP	0:	CT-DE	EC
		day	กาเ	d&n	day	nit	d\$n	day	nıt	d&n	day	nit	den	day	nit	din
100	MHz	0	0	9	0	Θ	- 0	ि छ	- 8	0	1	1	1	8	0	- 3
1	GHz	?	5	6	3	2	2	10	5	7	13	16	12	4	2	3
3	GHz	_ 9	7	8	4	2	3	12	7	10	16	14	15	5	4	4
6	GHz	19	16	17	10	7	9	19	14	17	28	26	27	18	16	17
10	GHz	36	34	35	26	23	25	29	27	28	43	43	43	46	42	44
20	GHz	50	49	49	43	42	42	39	_ 37	38	53	55	54	65	62	63

SUPERCE BASED DUCT SURMARY:

PARAMETER		ERPL.	7	J	K-HA	AR	A	R-J	UN	31	JL-SI	EP	O	T-D	EC
	day	nit	d&n	day	nii	d&n	day	nit	d&n	day	nıı	dŧn	day	nit	den
Percent occurrence	3	4	3	4	1	3	4	4	4	4	8	6	8	1	1
AVG thickness Kft			.27	l		. 18	i		.26	!		.32			.33
AVG trap freq GHz	l		1.9	1		2.2			1.5			. 89	ŀ		2.9
AVG lyr grd -N/Kft	1		117	1		124			180			88			74

ELEVATED DUCT CHMMADY

PARAMETER		EARL	-	, .	H-NA			PR-J			UL-SI			T-DI	
	day	nit	d&n	day	nit	d&n	day	nit	dan	day	nıt	dŧn	day	nit	důn
Percent occurrence	7	6	7	1	1	1	7	4	5	18	14	16	3	5	
AVG top ht Kft	l		4.9	1		4.9	ł		4.6	ì		4.8		-	5.2
AVG thickness Kft	l		.22	l		. 14			.27			.28	1		. 17
AVG trap freq GHz			2.0			3.9			1.0			.87			2.2
AVG lyr grd -N/Kft			54	l		48	Ì		57	i		57	ì		55
AVG lyr base Kft	i		4.7			4.7	ł		4.4			4.5	1		5. 1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPPENCE.

PERCENT OCCURRENC	- 1 .	EARL'	-		AH-M			R-JI			JL-SI			T-DE	
L	day	nıt	dŧn	day	nit	dŁn	day	nit	dan	day	nit	d&n	day	nit	ds n
0 to 10 Feet	34	34	34	31	31	31	48	48	48	38	36	37	19	21	25
10 to 20 Feet	17	19	18	27	27	27	16	18	17	11	12	11	15	17	16
20 to 30 Feet	14	15	15	17	18	18	10	10	19	19	12	11	19	28	19
30 to 40 Feet	11	11	11	11	11	11	7	8	7	8	11	9	17	16	16
40 to 50 Feet	7	7	7	6	5	5	4	5	4	7	8	ષ્ટ	12	10	11
50 to 60 Feet	5	5	5	3	3	3	3	3	3	6	6	6	7	7	7
60 to 70 Feet	3	3	3	1	1	1	2	2	2	4	4	4	4	4	4
70 to 80 Feet	2	1	2	1	8	1	1	1	i	2	2	2	2	2	2
80 to 90 Feet	1	1	1	0	0	0	1	1	1	2	1	1	1	1	ī
98 to 188 Feet	1	1	1	0	0	Ø	1	1	1	1	1	<u> </u>	1	1	1
above 100 Feet	6	3	5	2	1	2	8	4	6	11	6	9	4	2	3
Nean height Feet	31	_ 27	29	23	21	22	28	22	25	39	32	36	34	31	3.3

PARAMETEP	YEARL	<i>'</i>	JF	H-HAR		iPR-J	UN	31	JL-SI	EΡ	90	T-DE	C
	day nit	dan	day	nit de	da	9 n12	din	day	nit	d&n	da	nit	dtn
% occur EL&SB dcts		- 0	Г		3		8			1			9
% occur 2+ EL dcts		9	i	(3		0			1	i		Đ.
AVG station N		319	ļ	310	şi 💮		316			329			315
RYG station -N/Kft		13	1	1:	2		12			14	l		12
AVG sfc uind Kts	16 16	16	20	19 20	1.	14	14	12	12	12	18	17	18

IREPS REV 2.1

HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 58 45 N 94 04 W (*) INDICATES INSUFFICIENT DATA

Radiosonde source: 72913 58 45 N 94 84 W Radiosonde station height: 98 Feet

Surface obs source: MS193 55 00 N 125 08 H

DESCRIPT OCCUPRENCE OF ENHANCED SUPERCE-TO-SUPERCE PARAP/ESM/COM DANCES

PEALENT (RECORMENCE	UF ER	HHH	LED :	SUKF	HLE-	10-SI	7KLH	CE KI	HUHR	L'ESM	*CUN	KHIM	<u> </u>		_
FRE	QUENCY	YE	ARL'	Ÿ	J	RH-M	R.	AI	PR-JI	บห	J	UL-S.	P	00	CT-DE	ĒC
		day	nit	d&n	day	nit	din	day	nit	d&n	day	ការ	dan	day	nit	dkn
100	MHz	0	8	- 0	0	8	- 0	0	0	8	1	- 8	1	0	8	8
1	GHz	11	6	9	7	3	5	16	10	13	18	10	14	4	3	4
3	GHz	14	8	11	9	3	_ 6	18	12	15	22	13	_ 17	5	3	4
6	GHz	19	12	15	12	6	9	25	17	21	28	18	23	11	7	<u> </u>
10	GHz	36	26	31	28	20	24	42	38	36	40	29	35	33	27	39
20	GHz	55	48	52	49	43	46	61	55	58	54	47	58	57	48	52

CUREACE PACER BUCT CHAMARY

PORTHUE RHEED BOLL	SUNNAKY:								
PARAMETER	YZARLY	JAN-M	AR	APR-J	บห	JÚI	L-SEP	OCT-1	DEC
	day nit da	n day nit	dån	day nit	d&n	day	nit dar	day nit	dan
Percent occurrence	4 1	3 2 8	3	3 2	: 3	10	3 7	9	9 6
AYG thickness Kft	.2	2)	.19	J	. 24	}	.22	ļ	.24
AVG trap freq GHz	1.	3	1.4	1 -	1.6	ŀ	1.5	ł	.77
AVG lyr grd -N/Kft	13	2	208	<u> </u>	184	<u> </u>	154		72

FLEVATED DUCT SUMMARY:

PARAMETER	YE	ARL'	Υ	J	RH-M	AR	A!	R-J	jΗ	Ji	UL-SI	EP	O:	T-Di	EC
	day	nit	<u>d</u> &n	day	nit	d&n	day	nit	dŁn	day	nit	din	day	nıt	dtn
Percent occurrence	6	4	5	2		2	8	5	7	11	8	10	3	3	3
AVG top ht Kft	ļ.		2.8	į		2.6			1.7			4.9	1		1.9
AVG thickness Kft_		_	.21			.17	i		.22			.28	l		.17
AVG trap freq GHz		-	2.6			2.2			2.1			1.0			2.8
AVG lyr grd -N/Kft	ļ		58			66	•		53			57			55
RVG lyr base Kft			2.6	Ī		2.5	ĺ		1.5			4.7	ĺ		1.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERLENT	OCC:	URRENCE	YE	ARLY	′ _	31	AN-Ki	1R	AF	R-JU	JH	Ji	JL-SE	P	00	.T-DE	٤٢ .
			day	nit	dan	day	nit	d&n	day	กาน	<u>d&n</u>	day	nit	d&n	day	nit	d&n
8 50	10	Feet	25	26	25	24	23	23	20	19	28	36	33	34	22	27	25
18 to	20	Feet	21	27	24	28	33	31	28	27	23	15	22	18	21	25	23
20 to	30	Feet	20	22	_11	22	23	_23	28_	_26	_23	14	18	16	_24	21	23
30 to	40	Feet	12	10	11	12	10	11	12	9	11	8	- 8	8	15	15	15
40 to	50	Feet	5	4	5	4	4	4	5	4	5	5	4	4	7	5	6
50 to	60	Feet	3	2	_ 2	_2	1	_ 2	3	1	2	2	2	2	3	2	3
60 to	70	Feet	1	1	1	1	1	1	2	1	1	1	2	2	1	1	ī
78 to	88	Feet	1	1	1	9	1	1	1	2	2	2	1	2	1	1	1
80 tc	90	Feet	1	1	_ 1	1	e	_ 1	<u> </u>	1	1	_1	2	ı	_ 1	8	. 0
98 10	100	Feet	1	1	1	0	8	0	1	1	1	1	1	1	0	8	8
above	100	Feet	10	6	8	6	3	4	15	9	12	15	9	12	4	3	4
Mean he	iah	t Feet	36	29	32	29	24	27	45	35	48	41	32	36	29	24	26

PARAMETER	Y	HRL	Y	J	HII-HI	RR	AF	R-J	มห	30	リレーらむ	ĒΡ	36	T-DE	EC
	day	nit	d&n	day	nit	d&n	day	nit	dtn	day	nit	de:.	day	nit	dan
% occur ELESB dcts			- 9			0			0			1			0
% occur 2+ EL dcts	1		8	1		9			8			9			8
AVG station N			318	l		323			314	İ		320			315
AVG station -N/Kft	1		13			14			13	į		13			12
AVG sfc wind Kts	15	13	14	17	15	16	14	11	13	11	10	11	18	16	17

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Radiosonue station height: 75 Feet

Surface obs source: HS193 55 08 h 125 08 W

PERCENT OCCURPENCE OF ENHANCED SURFACE-TO-SURFACE RADAR 'ESH'COM RANGES:

PERCENT OCCURRENCE	UF _ E.I	SPARI	LED :	SURFI	MEE_	10-20	TKL HC	- E - C -	אחער	E 311	COL	FRIN	<u> 363.</u>		
FREQUENCY	Y	EARL	Y	JI	RH-M	RR	A F	R-J	ЯL	3	JL-S	ĖΡ	Ç	CT-D	EC
	day	nit	d&n	day	าเร	din	day	nit	dån	day	nit	d&n	day	nit	den
100 MHz	0	8	- 6	0	- 0	8	1	- 8	9	1	- 8	8	9	8	ย
1 GHz	12	7	9	7	3	5	17	18	13	17	10	13	5	3	4
3_GHz	_14	8	11	9	4	6	20	12	16	19	13	16	6	4	5
6 GHz	19	12	16	13	7	19	26	17	21	25	17	21	12	- 8	10
10 GHz	36	27	31	28	21	24	43	38	37	38	29	33	34	27	39
20 GHz	55	48	52	49	44	47	52	55	59	52	47	49	_58	48	53

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	ENRL'	Y	J	RN-M	AR .	ar	R-J	JN	J	JL-5	EP -	01	CT-D	EC
	day	nıt	dŁn	day	nit	d&n	day	nit	dan	day	ការន	dan	day	nit	d&n
Percent occurrence	4	2	3	3	1	2	5	2	4	-5	2	4	2	1	2
AVG thickness Kft	l		.26			.26	1		.31			. 29	l		.20
8VG trap freq GHz	ĺ		1.3			1.3	i .		1.0			.91	ĺ		1.8
AVG lyr grd -H-Kft	L		86	Ĺ		89	Ĺ		89	<u> </u>		95			71

ELEVATED DUCT SUMMARY:

PARAMETER	71	EARL'	Y	J	AH- M	PR -	A!	R-J	ŲH	- 31	JL-SI	Р	O	CT-DI	EC
	Jay	nit	d&n	day	nit	d&n	day	nit	dan	day	nit	dŧn	day	nit	dan
Parcent occurrence	7	13	10	3	5	4	5	11	8	13	27	20	5	8	7
AYG top ht Kft	l		4.8	l		3.7]		4.9	l		4.4	ĺ		6.0
AVG thickness Xft	[.27	I		.23	<u></u>		.26			.31	i_		.27
AVG trap freq GHz			.87			1.0			.91	i		.63			1.0
AVG lyr Q. c -H/Kft	ĺ		59	!		59	i		57			56	ŀ		64
AVG for base Kft	[4.6	(3.6	ſ		4.7	1		4.2	j		5.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCU	RRENCE	YE	ARL	7	Ji	iii-Mi	1R	Al	R-Ji	JH	Ji	JL-SE	P	90	T-DE	C
			day	nit	dån	day	nit	d&n	day	nit	₫₽n	day	nit	d\$n	day	การ	din
e to	10	Feet	25	2€	25	24	23	23	28	19	20	36	33	34	22	27	25
10 00	28	Feet	21	27	24	28	33	31	20	27	23	15	22	18	21	25	23
20 10	30	Feet	26	22	21	_22	23	23	_20	26	23	_14	18	16	_24	21	23
30 to	40	Feet	12	10	11	12	10	11	12	9	11	8	- 9	8	15	15	15
40 10	50	Feet	5	4	5	4	4	4	5	4	5	5	4	4	7	5	6
_50 to	60	Feet	3	2	2	_ 2	1	2	_ 3	1	2	2	2	2	_ 3	2	3
60 to	70	Feet	1	1	1	1	1	1	2	1	1	1	2	2	1	1	_ :
70 to	80	Feet	1	1	1	0	1	1	1	2	2	2	í	2	1	1	1
89 to	98	Feet	1	1	1	1	9	1	. 1	1	1	1	2	1	1	0	0
90 10	100	Feet	1	1	1	8	0	8	1	1	1	ī	1	1	8	8	. 6
above	100	Feet	18	6	8	6	3	4	15	9	12	15	9	12	4	3	4
Hean he	1 aht	Feet	36	29	32	29	24	27	45	35	40	41	32	36	29	24	26

GENERAL METEOPOLOGY SUHKARY:

PARAMETER	YE	ARL	ľ	31	1H-H	AR .	AF	R-J	UN	Jl	JL-S	P	0	CT-D	EC
	day	nit	dan	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	การ	d£n
% occur EL&SB dcts			8	i —		0			8			1			0
% occur 2+ EL dcts	1		1	i		0	i		0			3	i		ð
AVG station N			324			317			323			334			322
AVG station -N/Kft			13			12			13			14			12
RYG sfc uind Kis	15	13	14	17	15	16	14	11	13	11	10	11	18	16	17

IREPS REV 2.1

HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 55 01 N 131 34 H (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 70398 55 01 N 131 34 H

Radiosonde station height: 121 Feet Surface obs source: MS194 55 80 H 135 88 H

PEDCENT	OCCURRENCE	ΩF	ENHANCED	SUPERCE-TO-SUPERCE	PATAD/FSM/COM	PANCES.

-	CHOCKLY GOOGLES				<u> </u>		 	<u> </u>		*****		••••	*****			
Γ	FREQUENCY	Y	EARL'	Υ	J1	AH-HI	RR	RI	PR-JU	JN	Ji	JL-SI	ÉP	00	CT-DI	SC
1		day	nit	dkn	day	nit	din	day	nit	d&n	day	nit	dan	day	nit	dan
Г	100 MHz	0	9	0	9	0	9	1	- 0	- 0	1	1	1	0	9	9
1	1 GHz	8	3	5	3	1	2	12	3	7	14	6	19	3	2	2
Ĺ	3 GH2	9	4	7	3	2	2	14	4	9	17	8	12	3	3	3
Γ	6 GHz	15	7	11	5	3	4	20	7	13	24	12	18	9	6	8
i	10 GHz	34	25	29	22	17	19	36	21	28	41	31	36	36	32	34
L	20 GHz	54	_50	52	46	42	44	54	44	49	57	54	56	68	60	ಪ 8

SURFACE BUSED DOCA	SUMMEN .													
PARAMETER	YEARL	Y	J	<u> </u>	1R	AI	PR-JI	אט	7	UL-SE	EP	00	CT-DI	EC
L	day nit	<u>đần</u>	day	nit	d&n	day	nit	den	day	nit	dŁn	day	nit	den
Percent occurrence	4 3	4	1	2	2	7	3	5	8	5	7	1	3	2
AVG thickness Kft		. 21	(.21	1		.20			.29	Í		.16
RYC trap freq GHz	i	2.0	i		1.8	ì		1.7	1		1.3	i		3.4
AVG or grd -N/Kft		140	Ĺ		135			105			100	<u> </u>		222

ELEVATED DUCT SUMMAR	?Y:														
PARAMETER	YI	FARL'	Υ	l	AN-H	AR	AI	R-J	אט	J	UL-SI	EP	00	CT-DI	EC
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	กาเ	din	day	nit	dèn
Percent occurrence	5	8	6	3	4	4	3	6	5	10	17	14	4	4	4
AVG top ht Kft	1		5.4	1		4.6	i		5.3			6.2	l		5.3
AVG thickness Kft			.22	Ĺ		.21	<u> </u>		.22	<u>. </u>		.27			.17
AVG trap freq GHz			1.2	!		1.2			1.1			.83			1.6
AVG lyr grd -N/Kft			59	1		53	ĺ		68	ĺ		57	(65
AVG lyr base Kft	L		5.2	l		4.4			5.1			6.0	1		5.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

EVINTURIN	LUN	DUCT MIS	3103	NITALE .	111 F	FFCE	יט ייו	CUR	FENCE								
PERCENT	r occ	URREHCE	YI	EARL	Y	3	H-48	AR	AI	R-JI	אנ	71	JL-SI	P	Õ	7-06	<u>.</u>
			đay	រាវ	d&n	day	nit	d&n	day	nit	<u> Մ</u> Łn	day	n)t	ರಹಿಗ	day	nit	ರ೬೧
8 to	16	Feet	26	24	25	27	26	27	28	25	27	28	25	26	28	19	19
10 20	20	Fect	22	28	25	27	32	38	22	31	27	19	24	21	19	22	21
28 to	38	Feet	21	25	_23	24	26	25	18	24	21	17	_24	28	_24	28	26
30 to	48	Feet	14	14	14	13	11	12	12	11	12	11	15	13	19	19	7.3
40 to	50	Feet	6	4	5	4	2	3	5	2	4	6	5	6	9	7	8
50 to	_60	Feet	3_	2	2	1	1	1	2	2	2	з	2	3	4	2	3
69 to	78	Feet	1	1	1	1	0	8	1	:	1	2	1	1	1	1	<u>-</u> -
70 to	88	Feet	1	0	1	1	Ð	6	1	9	1	1	1	1	0	8	9
80 to	98	cet	1	- 8	_ 8	_ 9	0	8	. 1	, e	9	1	1	1	8	Θ	9
98 to	100	Feet	0	C	9	0	0	8	1	5	6	1	1	1	e	6	0
above	100	Feet	6	2	4	2	1	1	9	2	6	11	4	7	2	1	2
Hean !	e i gh	t Feet	30	23	27	22	19	2:	34	22	28	37	25	32	28	24	26

GENERALE HETEOROGOT	00111111													
PARAMETER	YEA	RLY	J:	in-He	R	96	R-J	UH	J	UL-SI	EP	01	CT-DE	EC
	day n	is dan	day	nit	dan	day	nit	din	day	nıt	din	day	nit	dun
% occur EL&SB dcts		0	<u> </u>		8			0	[–		1			0
% occur 2+ EL dcts		8	1		9			8	1		1	{		ថ
AVG station N	j	319			312	i		318	1		329	l		315
AVG station -N/Kft		12	ļ		11	Ì		12	,		13	1		12
AVG sfc wind Kts	18	17_17	20	19	28	16	_15	15	14	14	14	21	20	20

Specified location: 59 31 N 139 48 W (*) INDICATES INSUFFICIENT DATA 59 31 8 Radiosonde source : 70351 139 48 H

Radiosonde station height: 39 Feet Surface obs source: MS194 55 00 N 135 00 W

PER	PCENT (DCCURRENCE	OF E	HAN	CED S	SURF	ACE-	TO-SI	URFA	CE P	ADAR.	ESM	COM	RAN	GES:		
	FRE	DUENCY	YI	EARL'	7	7	AH-N	AR	FI	PŘ-JI	JH	J	UL-S	ĔΡ	C	CT-DI	EC
Ц_			iday	nit	d&n	day	nit	d&n	day	ការដ	dan	day	nit	d&n	day	nit	đěn
	166	HHZ	0	1	1	8	1	1	9	1	8	8	1	1	8	1	1
1	1	GHZ	7	5	6	4	4	4	10	4	7	12	6	9	4	4	4
L	3	GHz	1 9	6	8	5	5	5	12	5	8	14	. 8	11	_ 5	6	6
I	6	GHZ	14	9	12	7	7	7	17	8	12	21	13	17	11	10	19
i	10	GHZ	33	27	38	24	21	22	33	22	28	39	31	35	38	35	36
L	20	GH2	54	51	53	48	45	46	51	45	48	55	54	55	61	62	62

SUPERCE ROSER BUCT SUMMARY.

PARAMETER	Y	ARL	Y	J	AN-M	RR	A.	PR-JI	HU	3	UL-S	EP	0	CT-DI	EC
	day	nit	dtn	day	nıt	đần	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	7	5	4	8	6	2	5	4	3	6	5	4	7	€
AVG thickness Kft	i		. 23	ļ		.19			.24			.27	1		. 21
AVG trap freq GHz	1		1.5	Ì		1.8	i		1.5	l		1.3	1		1.4
AVG lyr grd -H/kft	l		109	l		113	l		88	1		91			106

ELEVATED DUCT SUHMARY:

PARAMETER	YE	RRL.	¥	31	M-HA	AR .	A	PR-JI	JN	Ji	JL-S	EΡ	0	CT-D	ÉC
	day	nit	d&n	day	nit	d&n	day	nit	dŁn	day	nit	ರಹಿಗ	day	nit	d&n
Percent occurrence	4	6	5	3	_3	3	1 4	- 8	6	7	11	9	2	2	2
AVG top ht Kft	l		2.9			2.6	l		2.4			4.8			2.5
AVG thickness Kft			.27			.21			.30	İ		.33			. 25
AVG trap freq GHz			1.2			2.0	1		1.0			.69			1.2
AVG lyr grd -N/Kft	1		58	l		61			56	1		55			58
AVG lyr base Kft			2.7	l		2.4	ŀ		2.2	i		3.8			2.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCC!	UPRENCE	Y	EARL	ľ	J	Ail-Mi	35	คเ	R-Ji	JH 🗀	Jŧ	JL-S	EP	õ	CT-DI	EC
			day	nst	din	day	nit	dìn	day	nit	den	day	nit	d&n	day	nit	den
8 to	10	Feet	26	24	25	27	26	27	28	25	27	28	25	26	20	19	19
10 to	20	Feet	22	28	25	27	32	38	22	3:	27	19	24	21	19	22	21
20 to	38	Feet	21	25	23	24	26	25	18	24	21	17	24	26	24	28	26
36 10	40	Feet	14	14	14	13	11	12	12	11	12	11	15	13	13	19	19
40 to	53	Feet	6	4	5	4	2	3	5	2	4	6	5	6	9	7	8
50 to	60	Feet	3	_ 2	2	1	1	1	_ 2	2	. ?	3	2	3	4	2	3
50 to	70	Feet	1	1	1	1	8	8	1	1	1	2	1	1	1	1	1
78 to	88	Feet	1	8	1	1	9	8	1	6	1	1	1	1	8	9	9
80 to	98	Feet	1	. 0	8	9	8		1_1	9		1	1	1	8	8	9
90 to	100	Feet	0	8	- 0	0	េស	6	1	8	8	1	1	1	0	9	8
above	100	Feet	6	2	4	2	1	1	9	2	6	11	4	?	2	1	2
Hean he	1gh	t Feet	38	23	27	22	19	21	34	22	28	37	2€	22	28	24	26

PARAMETER		ERRL	•		H-H			P-J			IL S			CT-DI	
	day	nit	d&n	day	nit	din	day	nit	d&n	day	es t	den	day	nit	dtn
% occur EL&SB dcts			0			Ð			8			- 6			8
% occur 2+ EL dcts	1		9			0	l		0	i		1	i		8
AVG station H			318	ł		311	l		319	1		338	İ		313
AVG station -H/Kft	ĺ		12	l		11	l		12	i		13	İ		12
AVG sfc wind Kts	18	17	17	20	19	20	16	15	15	14	14	14	21	26	20

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 50 00 H 145 00 H (*) INDICATES INSUFFICIENT DATA

Radiosonde source: 4YP 58 88 H 145 88 H

Radiosonde station height: 39 Feet

Surface obs source: MS159 45 00 N 145 00 H

PEPCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/CON RANGES:

. E. CEII. GOGGIII.EIIGE	Y,	******				<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	<u> </u>								
FREQUENCY	Y	EARL'	Y	31	AN-M	AR	A	PR-JI	UH	Jŧ	JL-S	P	0	CT-DE	EC
1	day	nit	dkn	day	nit	dŁn	day	nit	dŁn	day	nit	d£n	day	nit	d&n
100 MHz	9	9	8	8	8	8	9	8	9	9	9	9	9	6	9
1 GHz	6	3	4	2	1	2	9	3	6	11	4	7	4	2	3
3 GHz	8	3	5	3	2	2	11	3	7	12	6	9	5	2	3
6 GHz	15	8	11	7	4	6	16	6	11	21	12	17	14	9	12
18 GHz	36	31	34	29	24	27	34	25	39	48	35	37	43	48	41
28 GHz	54	53	54	49	49	49	59	47	48	54	54	54	63	61	62

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	J	RN-M	R.	A	R-J	JH	JI	JL-SI	P	0	T-DE	EC
	day	nit	d&n	day	nit	dån	day	nit	din	day	nit	dan	day	nit	d&n
Percent occurrence	2	2	2	2	3	3	4	1	3	1	2	2	1	2	2
RYG thickness Kft	1		.21	ł		.16			.13			.39			. 14
AVG trap freq GHz	Í		2.4			3.6			3.0	ŀ		.66	į.		2.4
AVG lyr grd -N/Kft			157	.		145	L		162			93	L		227

FLEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	J1	AN-MI	ar	A1	PR-J	אט	J	JL-Si	EP	00	CT-DI	EC
	day	nit	din	đay	nit	dŁn	day	nıt	dan	day	nit	ರ೬೧	day	nit	din
Percent occurrence	9	10	16	16	10	10	5	7	6	13	16	15	8	8	8
AVG top ht Kft			4.0	l		3.4			4.5	l		4			4.1
AVG thickness Kft			.38			.27	l		. 26			.36	1		. 29
AVG trap freq GHz			.84			.80			1.2			.51			.81
AVG lyr grd -N/Kft	1		63			63	l		63	i		#	i		62
AVG lur base Kft	1		3.9	ĺ		3.2	}		4.3	_		4.1	1		3.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCE	NT	OCC	URRENCE	Y	ARLI	,	31	AK-HI	38	A!	PR-J	JH	31	UL-SI	EP	00	T-DE	EC
				day	nit	d&n	day	nit	dên	day	nit	dkn	day	nit	din	day	nit	din
8	to	10	Feet	29	26	27	29	27	28	33	29	31	31	27	29	22	22	22
10	to	20	Feet	18	21	19	22	25	23	19	25	22	15	18	17	15	17	16
28	10	33	Feet	18	22	20	20	25	22	16	22	19	15	28	17	28	22	21
39	10	48	Feet	13	17	16	16	16	16	13	15	14	12	15	13	19	20	19
48	to	58	Feet	7	7	7	6	5	5	5	4	5	8	8	8	10	10	10
59	to	63	Feet	4	3	4	2	1	2	3	. 2	2	5	4	4	6	5	5
68	10	78	Feet	2	1	1	1	8	1	1	1	1	2	2	2	3	5	2
78	10	80	Feet	1	1	1	1	9	8	1	1	1	2	1	1	1	1	1
89	10	98	Feet	9	9	0	9	8	. 0	1	. 0	9	1	0	1	9		8
98	to	166	Feet		0	9	0	9	9	1	0	ß	1	1	1	8	0	8
abo	ove	108	Feet	6	2	4	2	1	ī	8	2	5	10	3	7	3	1	2
Hear	n h	engh	nt Feet	31	25	_28	24	21	22	32	23	27	37	28	33	31	27	29

PARAMETER	Y	ERRL'	۲	Ji	H-HE	RR	RF	P-J	JH	JU	JL-Si	P	00	CT-DE	:C
	day	710	din	day	nit	din	day	nit	din	day	nit	dŧn	day	nit	din
% occur ELESB dcts			Ø			8	í -		9			8			8
% occur 2+ EL dcts			1	į		8			0			2			8
AVG station N	i .		323	}		315	i		323	!		334			318
AVG station -N/Kft			13	i		12			13	l		15			13
AVG sfc wind Kts	18	18	18	21	21	21	17	16	16	14	14	14	21	20	21

(*) INDICATES INSUFFICIENT DATA

Radiosonde source: 70326 58 40 N 156 39 M Radiosonde station height: 49 Feet Surface obs source: MS196 55 00 N 155 00 M

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE PADAR/ESM/COM RANGES:

58 48 N 156 39 H

PACELLA OCCONNETICE	<u> </u>		<u> </u>	<u> </u>			<u> </u>								
FREQUENCY	Ý	EARL	Y	Ji	1K-HF	ik	A!	R-JU	IN	JI	JL-SI	EP	01	CT-DE	EC
	day	nit	d&n	day	กาเ	dtn	day	nit	dkn	day	nit	dån	day	nit	dŁn
100 MHz	0	0	8	9	0	Ð	0	8	0	0	8	8	0	8	в
1 GHz	4	2	3	1	1	1	6	1	4	6	3	4] 3	1	2
3 GHz	5	2	4	1	. 1	. 1	8	2	5	8	. 3	6	3	2	3
6 GHz	8	3	6	3	1	2	11	3	7	12	6	9	6	4	5
10 GHz	20	14	17	12	8	18	29	9	14	23	18	20	27	22	25
Í 20 GHz	39	34	36	31	27	29	33	23	28	37.	35	36	53	51	52

SURFACE BASED DUCT SUMMARY:

PARAMETER	Υŧ	ARL'	Ÿ	J	AN-H	AR	Ri	R-J	אט	JI	UL-S	EP	G	CT-D	EC
	day	nis	dŁn	day	nit	d&n	day	nit	din	day	nit	den	day	nit	d&n
Percent occurrence	2	2	2	1	6	1	3	1	2	2	3	3	1	2	2
AVG thickness Kft	ł		. 19	Į.		.22	1		.13	l		.23	l		.19
AVG trap freq GHz	ŀ		2.2			1.5	l		2.9	1		2.0	l		2.6
AVG lyr grd -N/Kft			95			124			77	L		101			_79

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	J	AH-M	AR	RI	R-J	JN	J	JL-SI	EP	0	CT-DI	EC
	day	nit	d&n	day	nit	der	day	nit	din	day	nıt	dan	day	nit	d&n
Percent occurrence	5	6	5	2	1	2	5	7	6	8	11	18	4	3	4
AVG top ht Kft			4.3	1		4.9			4.3			4.1	Ī		3.8
AVG thickness Kft	İ		.23	l .		. 15			.26	ŀ		.29	ŀ		.22
AVG trap freq GHz			1.3	1		2.0			.89			.76			1.7
AVG lyr grd -N/Kft	į		61	l		56			€4			62			68
AVG lyr base Kft			4.1	l		4.7			4.1	•		3.9			3.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	occu	RRENCE	YE	ARL	7	J	AH-M	AR	AF	R-JI	JN	JI	JL-SE	ρ	00	T-DE	C
L			day	nit	d&n	day	nit	d&n	day	nıt	d&n	day	nıt	din	day	nit	dan
Ø to	18	Feet	35	33	34	34	33	34	41	39	40	42	37	40	21	21	21
10 to	28	Feet	27	34	30	35	39	37	26	37	32	22	29	26	26	29	27
28 to	30	Feet	18	20	19	19	_ 19	_19	14	_15	14	14	17	16	26	29	28
30 to	40	Feet	9	8	9	7	5	6	6	4	5	8	9	9	16	15	15
40 to	50	Feet	3	2	3	2	1	1	2	1	2	3	3	3	6	4	5
50 to	60_	Feet	2	_1	1	1_1	. 0	. 0	1	. 1	1	2	1	1	2	i	2
60 to	70	Feet	1	9	0	1	0	0	1	8	1	1	G	1	Θ	8	Ð
79 to	88	Feet	8	8	8	9	9	8	1	9	1	1	ə	1	0	8	8
80 to	96	Feet	0	8	8	9	9	9	1	0	8	1 1	8	8	0	c	9
90 10	100	Feet	8	0	e	Θ	0	8	θ	8	9	1	9	9	e	0	0
above	100	Feet	3	1	2	1	1	1	5	1	3	5	2	4	2	1	2
Hean he	e i ght	Feet	22	18	28	17	15	17	23	16	19	24	18	21	25	21	23

PARAMETER	Y	ARL'	Y	Jf	H-H	38	A	P-J	אט	JU	JL-SI	EP	00	CT-D	EC
	day	711	din	day	nit	din	day	nit	din	day	nit	den	day	nit	dŧn
% occur EL&SB dcts			- 6			0			e			9			в
% occur 2+ EL dcts			9	l		0	1		0			1	1		0
AVG station N			312	l		310	1		319			319	1		310
AVG station -N/Kft			11	l		12	l		16			12	1		12
AVG sfc wind Kts	18	18	18	28	26	20	16	17	17	15	15	15	22	21	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUHMARY

Specified location: 57 45 H 152 31 H (*) INDICATES INSUFFICIENT DATA

Radiosonde source: 70350 57 45 N 152 31 H Radiosonde station height: 13 Feet Surface obs source: HS196 55 00 N 155 00 H

DEDCENT OCCUPATION OF ENHANCED SUPERIE-TO-SUPERIE DADAD/ESM/COM DANCES.

PERCENT C	ULLUKKENLE	UF E	nnnn	CED :	SUKF	165-1	10-3	JKFR	LE_RI	<u>אחעה</u>	ESI	COU	SIN	<u> 163.</u>		
FRE	QUENCY	Y	EARL'	Y	JI	in- Hf	1R	AI	PR-JI	JN	Ji	JL-S	P	00	CT-DE	EC
		day	nit	din	day	nit	din	day	nit	dŁn	day	nit	din	day	nit	dŁn
100	HHZ	0		- 6	0	9	0	В	- 0	0	0	9	- 0	e	-6	8
1	GHz	4	1	3	1	1	1	6	2	4	6	2	4	3	1	2
3	GHz	5	2	3	1	1	1	8	2	_ 5	8	2	_ 5	4	1	_ 2
6	GHz	, 8	3	6	2	2	2	11	4	8	12	4	8	7	3	5
10	GHz	28	14	17	11	8	10	20	9	15	23	16	20	28	21	24
28	GH2	39	34	36	30	27	29	33	24	29	37	34	35	54	58	52

SUPPORE BASED DUCT SUMMARY.

PARAMETER	Y	EARL'	Y	7	N-HA	AR	A	-R-J	JH	Ä	UL-S	EP	G	CT-D	EC
	day	การ	din	day	nit	din	day	nit	dŁn	day	nit	din	day	១ខេ	dkn
Percent occurrence	2	1	2	. 0	1	1	3	2	3	2	1	2	S	1	2
AVG thickness Kft			. 13			.89			. 15			. 14	l		.12
AVG trap freq GHz			3.2	1		3.7			2.0	i		3.3	l		4.8
AVG_lyr grd -N/Kft			139	Ĺ		175			95			124	L.		162

ELEVATED DUCT SUMMARY:

ELEVITED DOCT SURRE	_			_											
PARAMETER		ARL.	-		N-H			R-J			UL-Si			CT-DI	
	day	nıt	din	day	nit	d&n	day	nit	din	day	nit	din	day	nit	dŁn
Percent occurrence	7	8	7	3	7	5	7	8	8	11	14	13	5	4	5
RVG top ht Kft			4.9			4.3	ļ		4.9			5.7	1		4.8
AVG_thickness Kft	Í		. 25	[. 25	L		.21	! _		.28	Ĺ		. 24
AVG trap freq GHz			• 93			1.3			1.0			.77			.66
AVG lyr grd -N/Kft	l		62	I		65	!		60	ļ		57			55
AVG lyr base Kft			4.8			4.2	L		4.7	L		5.5			4.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCUPRENCE	Y	EARL	7	3	AH-M	AR	A	PR-J	NU	3	JL-S	EP	00	T-DE	C
		day	nit	d£n	day	nit	din	day	nit	dŁn	day	nit	dŁn	day	nit	d&n
θto	18 Feet	35	33	34	34	33	34	41	39	40	42	3?	40	21	21	21
10 to	20 Feet	27	34	38	35	39	37	26	37	32	22	29	26	26	29	27
20 to	30 Feet	18	20	19	19	19	19	14	15	14	14	17	16	26	29	28
38 to	40 Feet	9	8	9	7	5	6	6	4	- 5	8	9	9	16	15	15
48 to	58 Feet	3	2	3	2	1	1	2	1	2	3	3	3	6	4	5
50 to	60 Feet	j 2	1	1	1	8	. 0	1	1	_ 1	2	1	. 1	_ 2	1	2
60 to	70 Feet	1	8	8	1	9	8	ī	9	1	1	9	1	0	8	8
70 to	88 Feet	8	9	0	9	8	9	1	9	1	1	9	1	8	8	0
80 to	98 Feet	9	8	. 0	9	8	8	1	8	8	1	8	9	1 0	0	8
99 to	108 Feet	8	0	8	0	8	Θ	8	8	0	1	0	0	0	0	0
above	188 Feet	3	1	2	1	1	1	5	1	3	5	2	4	2	1	2
Mean he	ight Feet	22	18	28	17	16	17	23	16	19	24	18	21	25	21	23

PARAMETER	YERRLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit dan	day nit_din	day nit din	day nit dan
% occur ELLSE dets	9	8	8	8	9
% occur 2+ EL dcts	9	9	9	2	0
AVG station N	313	386	316	325	365
AVG station -N/Kft	11	18	11	12	10
AVG sfc uind Kts	19 18 18	20 20 20	1€ 17 17	15 15 15	22 21 21

Specified location: 55 12 N 162 43 H (*) INDICATES INSUFFICIENT DATA Radiosonde source : 70316 55 12 N 162 43 H

Radiosonde station height: 98 Feet Surface obs source: MS197 55 00 N 165 00 H

PERCENT OCCURRENCE	UP EI	ннни	CED :	<u> </u>	HUE-	10-5	JKFHI	ER	HUHR!	<u> ЕSП</u>	<u> / CUN</u>	RHN	LES:		
FREQUENCY	YI	EARL	Y	39	าห-หเ	RR	RI	PR-JU	JH	J	JL-SI	EP	01	CT-DE	C.
	day	nit	din	day	rit	din	day	nıt	d&n	day	nit	d&n	day	nit	d&n
100 MHz	8	8	9	0	8	0	0	- 0	9	0	0	9	8	0	9
1 GHz	3	1	2	3	1	2	5	2	3	4	2	3	3	1	2
3 GHz	5	2	3	4	1	2	6	2	4	5	3	4	4	1	3
6 GHz	7	3	5	6	1	4	8	3	6	8	4	6	6	2	4
10 GHz	17	11	14	12	6	9	14	7	11	17	12	14	24	17	20
28 GHz	33	28	31	28	22	25	26	17	22	29	28	28	59	46	48

SURFACE RASER DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	J	AN-M	AR	AI	R-J	UH _	J	JL-S	EΡ	0	CT-DI	EC
	day	nit	dŁn	day	nit	dŁn	day	nit	d&n	day	nit	d&n	day	nit	dŧn
Percent occurrence	4	2	3	4	1	3	5	2	4	3	3	3	4	2	3
AVG thickness Kft			. 17	l		.14	l		.16	l		.16			. 20
AVG trap freq GHz			2.4	ļ		2.4	1		2.5			2.1	1		2.5
AVG ivr grd -N/Kft			109			186	1		88			118	Į.		121

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ELEVATED BUCT SURMARY.

PARAMETER	Y	ERRL'	Y	Ji	RH-MI	AR	RI	-R-1	UN	J	JE-SI	Ε <mark>Ρ</mark>	0	CT-DI	EC
	day	nit	d₽n	day	กเเ	dan	day	nit	d&n	day	nit	dån	day	nit	den
Percent occurrence	7	12	10	5	7	6	4	10	7	11	22	17	8	10	9
AVG top ht Kft	Ì		3.7	l		2.9	ĺ		3.6			4.4	l		3.9
AVG thickness Kft	ł		.25	i		.25	i		.26			.32	ļ		.22
AVG trap freq GHz			1.2			1.1			1.8			.64	i		1.3
AVG lyr grd -N/Kft			58			58			54			69	1		68
AVG lyr base Kft	ļ		3.5	1		2.7	1		3.4	l		4.1	ŀ		3.7

EANLOW		100	DOCI MI	<u> </u>	KIRIT .	<u> 10 P</u>	ERLES	M 1 0	CCUR	KENC	<u> </u>							
PERCE	HT	OCE	URRENCE	Y	ARL'	Y	J	RN-M	P.R	RI	PR-J	UN	31	JL-SI	ΕP	0	CT-DE	EC
<u></u>				day			day	nit	ರಿಸಿಗಿ	day	nit	dkn	day	nit	d&n	day	nit	d£n
9	to	10	Feet	36	36	36	33	32	32	44	46	45	48	45	46	22	19	28
16	10	20	Feet	32	37	34	42	46	44	31	37	34	24	29	27	30	35	32
26	to	36	Feet	17	18	17	16	16	. 16	12	10	11	12	16	14	27	39	28
30	10	40	Feet	8	7	7	5	4	5	5	3	4	7	6	6	14	13	13
40	to	50	Feet	2	1	2	1	1	1	1	1	1	2	2	2	4	2	3
59	10	60	Feet	1	9	1	1	0	1	1	8	1	1	6	1	l 1	1	1
68	to	70	Feet	1	9	0	8	- 0	9	1	8	Ō	1	9	1	1	0	Ø
78	10	89	Feet	1	0	8	0	9	0	1	9	0	:	9	9	9	8	Ø
88	to	98	Feet	9	0	9	0	6	0	9	0	9	1	0	9	8	Ð	Ð
90	to	100	Feet	0	9	0	0	8	0	6	0	9	10	0	Ø	0	8	8
abo	ve	199	Feet	2	1	1	1	8	1	3	1	2	3	1	2	1	8	1
Hear	h	e i ghi	Feet	19	16	18	17	15	16	18	14	16	18	15	17	22	20	21

PARAMETER	YE	ARL'	1	Ji	AN-H	AR .	AF	PR-J1	JH	JU	L-SI	EP	01	CT-DI	EC
	day	nıt	dên	day	nıt	din	day	nit	dŁn	day	nit	din	day	nit	dan
% occur EL&SB dcts			8			θ			0			Θ			0
% occur 2+ EL dcts			8			Θ	ļ		Ð			2	l		9
AVG station H	l		316	l		311	ļ		316	İ		325	i		311
AVG station -N/Kft			12			12	l		12			13	l		12
AVG sfc wind Kts	18	18	18	28	20	20	16	16	16	15	15	15	21	20	21

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

Specified location: 51 52 N 176 39 W Radiosonde source: 78454 51 52 N 176 39 W (+) INDICATES INSUFFICIENT DATA

Radiosonde station height: 13 Feet Surface obs source: MS198 55 00 N 175 00 H

PEDCENT COCHEDENCE OF ENHANCED CHEEGE-TO-CHEEGE DARROVECHACOM DANCES

PERCENT	UCCURRENCE	UP EF	mnn		SUKFF	ILE-	<u> </u>	JKPBL	<u>.E_Rr</u>	INUK-	ESU	LUD	KAN	GES:		
FRE	QUENCY	YE	RRL	Y	JF	H-Mf	38	- AF	R-JL	H	J	JL-SE	P	01	CT-DE	EC
L		day	nit	din	day	nit	dŁn	day	nit	d£ n	day	การ	dån]day	nit	dŧn
198	MHZ	0	8	8	θ	- 6	8	Ð	9	0	8	8	. 6	0	9	0
1	GHz	2	1	2	2	1	1	3	2	3	3	1	2	2	1	1
3	GHz	3_	2	2	2	. 1	2	4.	2	3	4	2	3	2	1	2
6	GHz	5	3	4	4	2	3	6	4	5	7	3	5	-4	2	3
18	GKz	16	11	14	13	8	11	14	8	11	14	8	11	23	19	21
20	GHz	34	29	32	33	28	38	26	28	23	25	21	23	i 51	49	58

SUPERCE RESER BUCT SUMMERY.

	Onnink				_									
PARAMETER	YEA	RLY	J	AH-HI	12	HF.	R-JI	אנ	J1	UL-SI	EP	1 0	CT-DI	EC
	day n	it din	day	nit	din	day	nit	d&n	day	nit	din	day	nit	d£n
Percent occurrence	1	1 1	1	1		9	9	0	1	0	1	1	1	1
RVG thickness Kft		.17			.13	l		.12	l		.22	l		.20
AVG trap freq GH≥		2.4			2.5	1		4.4	•		1.5	l		1.3
RVG lyr grd -N/Kft		198			190	1		189	<u> </u>		207			205

ELEANIED TOCI 204UNI															
PARAMETER	Y	ERRL'	Y	J	AN-H	AR	NI AI	R-J)H	JI	JL-SI	ΕP	01	CT-DI	EC
	day	nit	_d£n	day	nit	d&n	day	nit	din	day	nit	din	day	nit	d&n
Percent occurrence	13	15	14	10	- 8	9	9	12	11	17	27	22	14	11	13
AVG top ht Kft			4.6	!		4.1	ŀ		4.2	i		5.1	l		4.8
AVG thickness Kft			.26			.27	l		.25	1		.31			.24
AVG trap freq GHz			.86			.77			1.2			. 55			.89
AVG lyr grd -H/Kft			68	•		64	i		58	1		61	l		59
AVG lyr base Kft			4.4	Í		4.0			4.8	Ĺ		4.9			4.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCE	HT	OCC	URRENCE	Y	RRL	1	Ji	an-M	R	l ei	PR-Jt	JH	Jŧ	JL-SI	EP	00	CT-DE	EC
_				day	nit	d&n	day	nit	dŁn	day	nit	din	day	nit	dŧn	day	nii	dŧn
8	to	10	Feet	35	34	35	29	29	29	41	42	41	49	47	48	21	19	28
18	to	20	Feet	32	36	34	38	43	41	33	38	35	27	31	29	28	33	31
20	10	38	Feet	18	18	18	28	28	28	13	12	12	11	13	12	28	29	28
30	to	49	Feet	8	7	8	7	- 5	6	6	4	5	5	4	5	16	15	15
48	10	58	Feet	2	2	2	2	1	1	2	į	1	2	1	2	4	3	3
58	to	68	Feet	1	. 1	1	1	8	. 1	1	1	1	. 1	. 1	1	1	8	1
60	to	78	Feet	1	0	8	9	8	6	1	E	8	1	6	:	1	8	0
79	to	88	Feet	9	9	8	0	9	8	1	0	9	0	6	9	ક	Э	0
89	to	90	Feet	9	8	8	l ø	0	9	9	8	9	8	8	0	e	8	8
96	to	100	Feet	0	8	0	6	8	9	1	9	9	0	ə	0	8	8	0
abo	ove.	100	Feet	2	1	2	1	1	1	3	2	3.	3	1	2	1	1	1
Hear	ı h	e i gh	t Feet	19	17	18	19	16	18	19	16	17	17	15	16	22	21	21

PARAMETER	YE	ARL	Y	Ji	H-HE	AR	AF	R-JI	ЛH	Ji	JL-SI	P	00	T-DI	EC
	day	nit	d&n	day	nit	din	day	nit	din	day	nit	din	day	nit	din
% occur ELESE dets			8			9			8			- 8			8
% occur 2+ EL dcts	Ī		1	[8	i		0			2	i		1
AVG station N			313	l		397			314	l		323	ŀ		369
AVG station -N/Kft			11	l		18	l		11			12	1		11
AVG sfc wind Kts	19	18	19	21	21	21	17	16	16	15	15	15	22	22	22

57 09 N 170 13 H (*) INDICATES INSUFFICIENT DATA Specified location:

Radiosonde source : 70308 57 09 N 170 13 H 33 Feet Radiosonde station height:

Surface obs source: MS198 55 88 N 175 88 N

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FER	CENT	UCCORREACE !	UP E	mnn	CED .	JUKFI	<u> </u>	10-31	JKFM	.E KI	1Unn.	<u> </u>	<u> </u>	IN FRANCE	<u> </u>		
	FRE	RUENCY	YI	EARL'	Y	J	RN-MI	RR	AF	R-JI	JN	1	JL-SI	EP	וס	CT-DE	C
L_			day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
	100	HHz	9	- 0	8	9	- 8	0	0	9	8	0	8	9	0	. 0	8
1	1	GHz	3	2	2	2	1	1	5	2	4	4	2	3	2	1	1
1	3	GHz	4	2	3	3	1	_2	7	3	5	5	3	4	3	1	2
	6	GHz	7	3	5	5	2	3	9	4	7	8	5	6	5	2	3
	10	GHz	17	12	14	14	8	11	17	9	13	15	19	12	24	19	22
	20	GHz	35	38	32	33	28	39	29	21	25	26	23	24	51	48	50

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e5.

SUMMARY:								_					
YEARLY	`	J	AH-MI	98	A!	R-JI	JN	J	JL-SI	ΕP	00	מרדכ	EC
day nit	dan	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
3 1	2	2	1	2	5	1	3	3	2	3	2	1	2
l	.18	-		. 14			.17	l		. 26	ĺ		.14
	2.8			3.8	l		2.7			1.8	1		3.1
<u> </u>	137			181			95			146			124
	YEARLY day nit 3 1	YEARLY day nit din 3 1 2 .18 2.8	YEARLY J day nit dan day 3 1 2 2 .18 2.8	YEARLY JAN-M day nit dan day nit 3 1 2 2 1 .18 2.8	YEARLY JAN-MAR day nit din day nit din 3 1 2 2 1 2 .18 .14 2.8 3.8	YEARLY JAN-MAR AI day nit din day nit din day 3 1 2 2 1 2 5 .18 .14 2.8 3.8	YEARLY JAN-MAR APR-JI day nit din day nit din day nit 3 1 2 2 1 2 5 1 .18 .14 2.8 3.8	YEARLY JAN-MAR APR-JUN day nit din day nit din day nit din 3 1 2 2 1 2 5 1 3 .18 .14 .17 2.8 3.8 2.7	YEARLY JAN-MAR APR-JUN June 1 1 2 1 2 5 1 3 3 1 2 2 1 2 5 1 3 3 1 2 1 2 1 2 5 1 3 3 1 2 2 1 2 5 1 3 3 3 1 2 2 7 2 8 3 8 2 2 7	YEARLY JAN-MAR APR-JUN JUL-SI day nit dan day nit dan day nit dan day nit 3 1 2 2 1 2 5 1 3 3 2 .18 .14 .17 2.8 3.8 2.7	YEARLY JAN-MAR APR-JUN JUL-SEP day nit din day nit din day nit din day nit din 3 1 2 2 1 2 5 1 3 3 2 3 .18 .14 .17 .26 2.8 3.8 2.7 1.8	YEARLY JAN-MAR APR-JUN JUL-SEP Of the part of the day nit day	YEARLY JAN-MAR APR-JUN JUL-SEP OCT-DI day nit dan day nit dan day nit dan day nit dan day nit 3 1 2 2 1 2 5 1 3 3 2 3 2 1 .18 .14 .17 .26 2.8 3.8 2.7 1.8

ELEVATED DUCT SUMMAR	?Y:														
PÄRAMETER	YE	ARL	Υ	31	AH-H	RR	AI	PR-JI	UN	7	JL-SI	EP	0	CT-DI	EC
	day	nit	d&n	day	nit	o &n	day	nit	dŁn	day	nit	d&n	day	nit	dan
Percent occurrence	13	16	15	9	7	- 8	12	17	15	20	27	24	11	13	12
AVG top ht Kft			3.5	1		3.3	1		3.0			4.2	į		3.4
AVG thickness Kft			.27			.20	l		.27			.32			.29
AVG trap freq GHz	l		.81			1.4			.76			.53			.53
AVG lyr grd -N/Kft	!		68	l		54	l		57	1		60	1		69
AVG lyr base Kft	Ĺ		3.3			3.1			2.7			3.9			3.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT	OCC	URRENCE	Y	ARL	•	J	AN-M	RR	AI	R-JI	JN	J1	JL-SI	ΕP	00	CT-DE	EC
			day	nit	d£n	day	nit	d&n	day	nit	d&n	day	nit	dln	day	nit	đěn
Ø to	10	Feet	35	34	35	29	29	29	41	42	41	49	47	48	21	19	28
10 to	20	Feet	32	36	34	38	43	41	33	38	35	27	31	29	28	33	31
20 to	38	Feet	18	18	18	20	20	20	13	12	12	11	13	12	28	29	28
30 to	40	Feet	8	7	8	7	- 5	6	6	4	5	5	4	- 5	16	15	15
48 to	56	Feet	2	2	2	2	ī	1	2	1	1	2	1	2	4	3	3
50 to	66	Feet	1	1_	1	_ 1	8	1	1_1	_ 1	1	1	. 1	1	1 1		1
60 to	79	Feet	Ł	9	8	Ø	1)	6	1	0	0	1	0	1	1	В	0
78 to	88	Feet	સ્	6	6	9	6	8	1	5	9	t	8	8	9	8	0
88 10	96	Feet	Ð		Ø	ાં ક	. 8	8	<u> </u>	- 6	8	i e	6	3	2		3
90 to	100	Feet	0	8	8	8	0	8	1	0	Ø	B	e	8	8	0	Q
above	183	Feet	2	1	2	1	1	1	3	2	3	3	1	2	1	1	1
Mean h	eigh	t Feet	19	17	18	19	16	18	19	16	17	17	15	16	22	21	21

PARAMETER	Y	EARL'	Y	Ji	AN-M	RP.	j ei	ペーノリ	JN .	JU	JL-S1	EP	Į 0:	CT-D	EC
	day	nit	dŁn	day	nit	d&n	day	nit	dŁn	day	nit	d&n	day	nit	d&n
% occur ELLSB dcts			8			- 8			1			1			8
% occur 2+ EL dcts			1	l		9	ł		1	}		2	1		8
AVG station N	ł		316	1		311	l		316			325	l		311
AVG station -N/Kft			12			12	l		12	l		13	l		11
AVG sfc wind Kts	19	18	19	21	21	21	17	16	16	15	15	15	22	22	22

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 52 43 N 174 06 E (*) INDICATES INSUFFICIENT DATA

Radiosonde scurce: 70414 52 43 N 174 06 E Radiosonde station height: 95 Feet

Surface obs source: MS199 55 00 N 175 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

LINGE								<u> </u>							
FREQUENCY	Y	EARL'	Y	Ji	AN-M	ar	- AI	PR-JI	JN	JU	JL-SE	EP	00	CT-DE	EC
	day	nit	dŁn	day	nit	d&n	day	nit	d&n	day	nit	din	day	nit	d&n
100 MHz	1	6	8	0	8	8	1	9	0	1	Ø	1	9	0	8
1 GHz	5	2	3	4	1	2	6	3	4	7	3	5	3	2	3
3_GHz	7	3	5	5	2	4	8	4	€	9	4	6	5	2	4
6 GHz	9	4	7	7	3	5	11	5	8	12	6	9	7	3	5
10 GHz	19	13	16	16	19	13	18	11	15	18	11	14	26	19	23
20 GHz	37	32	35	38	36	34	31	26	28	28	24	26	52	58	51

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	ARL'	Y	J	AN-K	R	RI	R-31	JH	J	JL-SI	EP	01	CT-DI	EC
	day	nit	dŁn	day	nit	dŧn	day	nit	din	day	nit	d&n	day	nit	d&n
Percent occurrence	6	3	4	5	3	4	5	3	4	9	3	6	4	3	4
AVG thickness Kft			. 16	ļ		.12	j		.17			. 24	ļ		.12
AVG trap freq GHz			1.9			2.8			1.4	1		1.5	l		2.0
AVG lun grd -H/Kft	Ĺ		110	L		73	L		105	Ĺ		146	<u> </u>		116

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	Ji	N-H	AR	AI	PR-J	אט	JI	JL-SI	P	01	CT-D	EC
	day	nit	dtn	day	nit	dan	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	10	14	12	6	7	7	9	14	12	16	23	20	7	10	9
AVG top ht Kft			3.9			4.2	1		3.5	ł		4.3			3.5
AVG thickness Kft			.25			. 18	L _		. 24			.31	<u> </u>		.26
AVG trap freq GHz			1.0			1.6	•		1.0			.61			.77
AVG lyr grd -N/Kft	l		58	1		54	i		58	l		56	l		65
AVG lyr base Kft			3.7			4.1	L .		3.3	L		4.0			3.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCC	URRENCE	YI	RRL	7	J	ลห-พ	R R	Al	PR-JI	UH	J	JL-SI	EP	00	T-DE	C
			day	nit	dan	day	nit	d&n	day	nit	din	day	nit	dan	day	nit	d&n
0 to	10	Feet	35	33	34	27	28	28	48	36	38	53	49	51	19	18	19
19 to	20	Feet	31	37	34	37	44	40	33	41	37	25	29	27	30	33	32
20 to	38	Feet	18	_28	19	_23	28	21	13	15	14	18	14	12	27	31	29
30 to	40	Feet	8	7	8	8	6	7	5	5	5	4	4	4	15	14	14
49 to	58	Feet	2	1	2	1	1	1	2	i	1	2	1	:	5	3	4
50 to	60	Feet	1	0	1	1	6		1_1	8	1	_ 1	1	1	1 1	_ 0_	1
60 to	70	Feet	1	1	1	0	9	0	1	1	1	1	1	ī	3	- 8	8
70 to	89	Feet	1	9	8	e	Θ	9	1	Θ	1	1	0	1	9	9	0
80 to	98_	Feet	. 0		9	8	0	- 6	1	8	0	_ 8	. 0	9	8	Θ	
55 to	100	Feet	8	8	0	ø	0	9	1	0	8	0	0	9	0	8	9
300ve	100	Feet	3	1	2	2	8	1	4	1	3	3	2	2	2	1	1
Hean he	righ	t Feet	_20	17	18	28	16	18	20	16	_18	16	14	15	24	21	22

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit (dkn	day	nit	dån	day	nit	đěn	day	nit	d&n	day	niz	d&n
% occur EL&SB dcts			0			0			9			ì		_	0
% occur 2+ EL dcts			1			8			0	i		3			1
AVG station H		:	315			308	1		316			326			311
AVG station -N/Kft			12			11			12			14			12
AVG sfc wind Kts	19	19	19	22	22	22	17	17	17	15	16	15	24	23	24

Specified location: 55 12 N 165 58 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 32618 55 12 N 165 58 E

Radiosonde station height: 62 Feet

Surface obs source: MS200 55 00 N 165 00 E

PERCENT OCCURRENCE OF EHHANCED SURFACE-TO-SUPFACE RADAR/ESM/COM RANGES

DERCENI OCCORRENCE	Ur E	ннни	רבח_'	SOKE	HLF-	10-51	UPFHI	LE KI	HUHK	/ESM	<u> / LUI*</u>	KHN	<u>, 25:</u>		
FREQUENCY	Y	EARL	Y	J	RN-M	AR	AI	PR-J	ЙN	31	UL-SI	EP	0	CT-D	EC
	day	nıt	d&n	day	nit	dån	day	nit	d&n	day	nıt	d&n	day	nit	d&n
100 MHz	0	0	8	*	*	*	0	0	8	0	0	- 0	*	*	*
1 GHz	5	3	4	*	*	¥	4	2	3	7	4	6	*	¥	*
3 GHz	6	4	5	*	*	*	4	2	3	8	_ 5	7	*	7	¥
6 GHz	9	6	7	*	*	*	7	4	5	12	7	9	*	*	¥
10 GHz	16	11	13	*	*	*	12	8	10	20	14	17	*	*	¥
20 GHz	29	24	26	*	¥	*	25	19	22	33	28	31	*	#	¥

E

SURFACE BASED DUCT SUMHARY:

POKENCE RHOED DOCT 3	SUNANKT:													
PARAMETER	YEARL	Y	- 31	AH-ME	₹R	A	PR-J	UH	J	JL-SI	EP	OC	T-DE	EC
	day nit	dan	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0 1	1	0	9	0	0	1	1	1	2	2	Ø	0	0
AVG thickness Kft		.21			*	ı		.31			.11	į		*
AVG trap freq GHz		.70			•	l		.46	1		.94	ĺ		#
AVG lyn grd -N/Kft		356	i		¥	1		237	ı		475	ĺ		*

ELEVATED DUCT SUMMARY:

PARAHETER	YI	ERRL'	Y	Jí	กห-หก	AR -	[AI	R-J	HU	31	UL-SI	P	Ð	CT-DI	EC
	day	nit	d&n	day	nit	dån	day	nıt	dŁn	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	1	9	1	2	2	2	2	2	2	9	8	θ
AVG top ht Kft	l		3.9	l		3.7	i		3.9			6.0			1.9
AVG thickness Kft	l		.32	l		. 24	l .		.41			.38	i		. 24
AVG trap freq GHz			.88	·		.56			.25			.49			2.2
AVG lyr grd -N/Kft	İ		88	i		97	İ		103	ł		61	l		59
AVG lyr base Kft	l		3.7	1		3.6	ĺ		3.7			5.7	i		1.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

EANLAKH	TON	DOC! HIS	<u> </u>	kņa .	in ri	RUE	111 0	CCUR	KEHL								
PERCENT	000	CURRENCE	YE	EARL'	Υ —	J	AH-M	AR	AI	R-J	JH	31	UL-SI	P	00	CT-DE	C
			day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
8 to	10	Feet	33	33	33	27	27	27	42	42	42	46	45	45	19	17	18
10 to	20	Feet	32	37	34	42	46	44	33	40	36	23	27	25	31	33	32
20 to	30	Feet	18	19	18	19	19	19	12	11	_ 12	13	15	_14	_28_	29	29
30 60	40	Feet	8	7	7	6	5	- 6	5	3	4	7	5	6	14	14	14
40 to	59	Feet	2	2	2	2	1	1	1	1	1	2	2	2	3	4	4
50 to	60	Feet	1 1	_ 1	1	. 8	1	1	1	_ 1	1	2	1	_ 1	_ 2	1_	1
60 to	78	Feet	1	1	1	0	3	9	1	0	1	1	1	1	8	1	1
78 to	80	Feet	1	6	0	1 0	Ð	0	1	1	1	1	9	8	1	9	9
80 to	90	Feet	8	0	8	8	. 0	8	0	. 0	. 0	8	. 0	. 9	9	9	9
98 to	180	3 Feet	0	9	9	8	Θ	9	Θ	9	9	1	0	9	0	8	6
above	100	9 Feet	4	2	3	2	1	1	4	1	2	7	3	5	2	1	2
Mean I	ie i gl	ht Feet	22	18	20	19	18	18	19	15	17	24	19	22	24	22	23

PAPAMETER	Y	earl'	r	J1	AN-W	ar 💮	n A F	PR-J	אנ	JU	JL-SE	EP	0	CT-Di	ΕC
L	day	nit	dtn	day	nit	d&n	yat	การ	d&n	day	nit	dån	day	nit	d&n
% occur EL&SB dcts			8	1		9			9			8			<u>e</u>
% occur 2+ EL dcts			0	ļ		9			9			0	ļ		9
AVG station N	ļ		316			389			316	l		328			311
AVG station -N/Kft			12	l		11	1		12	l		13			11
AVG sfc yind Kts	19	19	19	22	21	21	16	_16	16	15	15	15	22	_22	22
														-	

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

Specified location: 59 00 N 155 22 E Radiosonde source: 32217 50 00 N 155 22 E (*) INDICATES INSUFFICIENT DATA

Radiosonde station height: 36 Feet Surface obs source: MS201 55 00 N 155 00 E

PERCENT (DCCURRENCE	<u> </u>	инви	CED :	SURF	ACE-	TO-SI	JRFAC	ERF	IDAR.	ESM.	/COM	RHN	ES:		
FRE	RUENCY	Y	EARL'	Y	J	<u> </u>	RR	AF	R-JU	JN	J	JL-SE	P	O	CT-DE	C
		day	nit	dŁn	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100	HHz	0	1	1	*	*	#	0	0	0	1	1	1	0	0	0
1	GHz	8	5	7	*	*	*	7	3	5	11	8	9	8	4	6
3	GHz	11	_ 6	8	*	. *	*	9	5_	7	13	9	11	10	4	7
6	GHz	14	- 8	11	¥	*	¥	14	8	11	17	12	14	13	5	9
10	GHz	22	13	18	*	*	*	19	11	15	23	16	28	23	13	18
28	GHz	32	22	27	*	*	*	24	14	19	31	24	28	48	28	34

CHREACE BOCCH PHOT CHMMADY.

SUPPRICE BRISED BUCT	30111.11	N 1 4													
PARAMETER	YE	ARLY		Ji	H-HI	R	AI	R-JI	אנ	Ji	JL-SI	EP	Q	CT-DI	EC :
	day	nit	dŧn	day	nst	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	3	3	Ø	- 0	- 6	2	3	3	6	7	7	1	1	1
AVG thickness Kft	1		.28	ł		*			.32			.30	l		.23
AVG trap freq GHz	1		1.0			*	ı		.89			.53	i		1.7
AVG lyr grd -N/Kf	· L		128			*	<u> </u>		116			115			153

PARAMETER PARAMETER		EARL'	,	7	AN-M	00	- 61	R-J	IN	1 11	JL-S	- D	6	CT-DI	
FRANCIER			-			d&n							_		
Percent occurrence		1116	<u> </u>	Uay	1110	uan	uay.	1116	4	Oay	1116		Jay	1111	2001
		3	~ =	۰		~ .	7	-	~ 7	, ,		4 3			~ ~
AVG top ht Kft			3.5			3.6	1		2.7	l l		4.2			3.6
AVG thickness Kft			.26			<u>. 15</u>			.24	_		<u>.41</u>	—		.22
AVG trap freq GHz	i		1.8			4.1	ŀ		1.0	l		,39	i		1.5
AVG lyr grd -H/Kft			67	Į .		69			67	į		72	ı		59
AVG lyr base Kft			3,4	<u> </u>		3.5			2.6	L		4.0			3.4

EVAPORATION DUCT HISTOGRAM IN PERCENT ACCURRENCE:

PERCENT		URRENCE		ARL			H-HE			R-J	JH	Ji	JL-SE	P	00	T-DE	С
			day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	dan
8 to	18	Feet	49	56	52	52	-60	56	55	65	60	52	56	54	34	42	38
18 to	20	Feet	25	28	26	30	30	30	22	24	23	21	26	23	27	31	29
28 to	30	Feet	10	8	9	8	6	7	5	3	4	9	8	8	17	15	16
30 to	40	Feet	4	3	3	3	1	2	3	1	2	4	3	3	7	6	7
48 10	58	Feet	2	1	2	1	9	0	3	1	2	3	2	2	3	2	2
58 to	69	Feet	1	1	1	1	0	0	2	1	2	1	1	1	2	0	1_
69 to	70	Feet	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
70 to	80	Feet	1	9	1	1	8	8	1	1	1	1	1	1	1	Ø	0
80 10	98	Feet	1_	. 0	9	8	Θ	8	1	0	1	1	. 0	1	<u>1</u>	<u> </u>	1
98 to	100	Feet	1	-0	. 0	Ø	- 6	8	1	1	1	1	0	7	1	9	1
above	100	Feet	6	3	4	3	2	2	6	2	4	7	3	5	7	3	5
Hean h	eigh	t Feet	23	15	19	16	12	14	21	13	17	24	17	26	29	19	24

PARSKETER	YE	ARL	r	Jí	H-H	RR	£5	R-JU	JN	Ji	JL-SE	ΕP	00	CT-DE	EC
	day	nit	din	day	nit	dán	day	rit	dan	day	nit	den	day	nit	d₽n
% occur EL&SB dcts			- 0			- 0			0			9			0
% occur 2+ EL dcts	}		9			0	ŀ		6	1		0	l		6
AVG station N			316			398	ł		317	ł		327			311
AVG station -N/Kft			12	ł		11	l		12	ŀ		12			11
AVG sfc wind Kts	12	12	12	12	12	12	11	11	11	10	9.4	16	15	14	15

Specified location: 59 34 N 150 46 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 25913 59 34 N 150 46 E

Surface obs source: MS201 55 00 N 155 00 E

Radiosonde station height: 387 Feet

PERCENT OCCURRENCE OF ENHANCED SUPFACE-TO-SURFACE RADAR ESH COM RANGES:

FREQUENCY	Y	EARL'	Y	JI	AH-KI	1R	Al	PR-JI	JN	J	JL-SI	F	00	CT -DE	EC
1	day	nit	d&n	day	nit	d&n	day	nit	dan	day	nit	d&n	day	nit	d&n
100 MHz	0	9	- 0	0	<u>e</u>	- 0	0	8	- 6	9	9	0	8	8	- 0
1 GHz	6	3	5	3	2	2	7	2	5	8	<	6	7	3	5
3 GHz	8	4	6	3	2	3	9	4	ε	10	5	_8	_ 9	4	7
6 GHz	11	5	8	6	3	4	14	7	10	13	7	10	12	5	8
10 GHz	18	10	14	9	4	7	19	9	14	20	12	16	22	13	17
20 GHz	27	18	_22	17	16	14	25	13	19	28	20	24	_39	27	33

SURFACE BASED DUCT SUMMARY:

PARAMETER	YI	EARL'	Y	J	AN-H	AP.	RI	PR-J	JN	J	UL-SI	EP	01	CT-DI	EC
	day	nıt	d&n	day	nit	din	day	nit	d&n	day	nıt	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	0	- 0	3	2	3	2	2	2	8	9	9
AVG thickness Kft			. 15			.08	İ		.12	i		. 29	i		.10
AVG trap freq GHz	į .		3.1			2.9	i		2.0	ĺ		.90	l		6.7
AVG lyr grd -N/Kft			202			288			124	l		131			353

ELEVATED DUCT SUMMARY:

FARAMETER	Y	EARL'	Y	JI	คท− <u>พ</u>	AR	A	PR-JI	JH	J(JL-SI	EP	00	CT-DI	EC
	day	nit	d&n	day	nit	d&n	day	nıt	dån	day	nıt	d&n	day	nit	dan
Percent occurrence	1	2	- 2	0	1	1	2	2	2	3	4	4	8	1	1
AVG top ht Kft			7.6	l		17	1		4.6			4.4	l		4.9
AVG thickness Kft			. 26			. 15	ı		.21			.43	l		. 24
AVG trap freq GHz			.94	$\overline{}$		1.7			.95			.33			.74
AVG lyr grd -N/Kft			73			56			75			77	ļ		84
AVG lyr base Kft	l		7.5	l		16	l		4.5			4.2	í		4.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCC	URRENCE	78	ลิกเา	7	J	AH-MI	1R	AI	R-JI	JN	J	JL-SI	EP	O:	T-DE	EC
			day	nit	dar	day	nit	din	day	nit	dan	day	nit	d&n	day	nit	d&n
0 to	10	Feet	49	56	52	52	50	56	55	65	69	52	56	54	34	42	38
10 to	20	Feet	25	28	25	39	30	36	22	24	23	21	26	23	27	31	29
20 to	30	Feet	10	8	- 9	8	6	7	5	3	4	9	8	_8	17	15	16
30 to	40	Feet	4	3	3	3	1	2	3	1	2	4	3	3	7	6	7
40 to	50	Feet	2	1	2	1	9	9	3	1	2	3	2	2	3	2	2
50 to	60	Feet	_1	1	_1	1	0	0	2	1	2	1	1_	1	2	0	1
60 to	70	Feet	1	1		1	1	1	1	1	1	1		1	1	0	9
70 to	89	Feet	1	8	1	1	0	0	1	1	1	1	1	1	1	0	9
80 to	98	Feet	1	9	- 9	0		9	1	. 0	1	1	. 0	1	1_1	. 0	1
90 to	100	Feet	i	0	9	3	0	- 0	1	1	1	1	9	1	1	8	1
above	180	Feet	6	3	4	3	2	2	6	2	4	7	3	5	7	3	5
Mean he	1gh	t Feet	23	15	19	16	12	14	21	_ 13	17	24	17	28	_29	19	24

GENERAL HETEOROLOGI	SUMMER I	•											
PARAMETER	YEARL	Y	JA	ห-หล	R	RPR	-JUH	Ji	JL-SI	ĒΡ	00	T-DE	EC
	day nit	dan	day	nit e	dan	day n	it dån	day	nit	d&n	day	nít	d&n
% occur EL&SB dcts		9			0		- 6			9			8
% occur 2+ EL dcts	İ	9	ì		8		0			6			8
AVG station N	l	311	l	:	308		310	1		321	l		395
AVG station -N/Kft	ĺ	12			12		11	l		12	ŀ		11
AVG 3fc wind Kts	12 12	12	12	12	12	11	11 11	18	9.4	10	_15	14	15

Specified location: 54 18 N 155 58 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 32477 54 18 N 155 58 E

Radiosonde station height: 82 feet

Surface obs source: KS201 55 00 N 155 00 E

PERCENT OCCURRENCE OF ENHANCED SUBFACE-TO-SURFACE RABAR-ESM/COM RANGES:

ı	PERCE TI ULLUPRENCE	UP E	MANA	עם)	SURF	762-	: U-31	JKFN	LE RI	TENT	E DI	, <u>C U I I</u>	KHIN	3E3+		
i	FREQUENCY	Y	ERRL	Y	J	14-HB	R	Al	PR-J	UH	J	JL-SI	EP	Ö	CT-DE	EC
ł		day	nit	d&n	day	_nit	d&n	day	nit	d&n	day	<u>n1</u> t	d&n	day	ni t	d&n
1	100 HHz	0	0	6	8	1	8	9	1	0	0	1	9	0	0	0
	1 GHz	6	4	5	4	4	4	7	4	5	8	6	7	8	4	6
	3 GHz	j 8	. 6	7	5	6	5	9	5	7	9	7	8.	10	4	7
	6 GHz	12	8	10	7	7	7	14	8	11	13	9	11	13	5	9
Ì	10 GH≂	18	12	15	11	9	19	19	11	15	19	14	16	23	13	18
	20 GHz	28	20	24	19	16	17	24	14	19	27	22	25	40	28	34

CHDEOCE DOCER BUCK CLAMODY.

SUPPRIE BRSED DOCT S	UNANKY:													
PARAMETER	YEARLY	,	34	าห-หค	IR .	R.I	R-JI	JH	7	UL-SI	P	01	CT-DI	EC
	day nit	dŁn	day	nit	d&n	day	nit	d&n	day	กาเ	dan	day	nit	dŁn
Percent occurrence	2 4	3	3	8	6	2	3	3		4	3	1	1	1
AVG thickness Kft		.26			. 15			.37	l		.36			. 15
AVG trap freq GHz		1.9	i		3.6	l		. 52	1		.43	l		2.9
AVG lyr grd -N/Fft		243		_	454			110	<u> </u>		209			200

FI EVATER DUCT SUMMARY:

PARAMETER	YI	EARL'	γ	J	AH-H	AR	61	PR-J	UN	71	JL~SI	EP -	0	כד-ס	EC
	day	nit	d&n	day	nit	dån	Say	nit	den	day	nit	dkn	Jay	nit	d&n
Percent occurrence	2	3	2	- 6	8	- 0	3	3	3	3.	€	- 5	1	1	1
AVG top ht Kft	l		5.3	1		7.6			5.0			5.4	1		3.0
AVC thickness Kft	Í		.22			.11			.23	i		.36	<u> </u>		. 16
AVG trap freq GHz			1.7			2.1			.89			.49			2.8
RVG lyr grd -N/Kft			63			59			€8			70			55
AVG lyr base Kft	!		5.1	1		7.5	i		4.9	l		5.2	1		2.9

EVAPORATION BUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OF	CCURRENCE	YE	ARLY	7	31	an-Hi	AR.	Al	PR-JI	JN	31	JL-Si	EP	0	CT-D:	EC .
		day	กiเ	dtr.	day	nit	dan	day	nit	dŁn	day	nit	dan	day	nit	<u>Jan</u>
0 20 10	0 Feet	49	56	52	52	68	56	55	65	60	52	56	5∓	34	42	38
10 to 21	e Feet	25	28	26	38	36	38	22	24	23	21	26	23	27	31	29
20 to 31	0 Feet	10	્ર	9	8	_ 6	?	5	3	4	_9	8	- 8	17	15	16
30 to 41	0 Feet	4	3	3	3	1	5	3	1	2	□ ₹	3	3	7	6	7
40 to 5	B Feet	2	1	2	1	9	8	3	1	2	3	2	2	3	2	2
58 to 61	0 Feet	1	_ 1	1	1	3	9	2	1	2	1 1	1	1	2	U	1_
60 to 7	3 Feet	1	1	- :	1	1	ī	1	1	1	1	1	<u> </u>	1	C	0
70 to 8	0 Feet	1	ø	1	1	8	8	1	1	i	1	1	1	1	9	ø
88 to 91	0 Feet	í	_ 8	0	0	_ 8	9	1	. 8	1	_:	_ 9	1	1	0	1
90 to 1	00 Feet	1	0	8	0	0	8	1	1	1	1	8	1	1	8	1
above 1	00 Feet	6	3	4	3	2	2	E	2	4	7	3	5	7	3	5
Mean her	ght Fiet	23	15	19	16	_ 12	14	21	_13	17	24	17	28	29	_19	24

GENERAL DETENDOCOME	SUNNAKT				
PARAMETER	YEARLY	JAN-MAR	APR-JUH	JUL-SEP	OCT-DEC
	day nit dan	day nit din	day nit dan	day nit dan	day nit den
% occur ELESB dets	0	9	8	9	0
% occur 2+ EL dcts	9	8	8	0	9
AVG station N	317	311	316	338	311
AVG station -N/Kft	12	12	12	13	12
AVG sfc wind Kts	12 12 12	12 12 12	11 11 11	10 9.4 10	15 14 15

Specified location:

1 location: 50 54 N 142 10 E (+) INDICATES INSUFFICIENT DATA

Radiosonde source : 32061 50 54 N 142 10 E

Radiosonde station height: 99 Feet Surface obs source: MS166 45 00 N 145 00 E

DEDCENT ACCHIDATION OF EMBANCED CHARACTETUS: DEDCE PARA / FCM / CAM PRINCES.

	FRE	DUENCY	Y	EPRL'	Y	Ji	AN-HE	iR	RI	R-J	JN	Ji	<u> 15-6,</u>	EP	0	CT-DE	EC
L			day	nit	den	day	nit	d£n	day	nit	den	day	nit	Jin	day	nit	d&n
	190	MHZ	0	0	- 0	0	9	- 0	Θ	0	- 6	8	1	1	9	0	8
	1	GHz	11	9	10	4	2	3	9	7	8	21	18	19	10	7	9
1	_3	GHz	13	18	12	5	2	3	11	8	10	23	_21	_22	13	9	11
	6	SHz	21	17	19	8	4	- 6	15	11	13	32	31	31	29	24	26
ì	10	GHz	38	35	37	25	19	22	25	26	23	45	46	45	58	54	56
i	20	GHZ	53	51	32	47	43	45	36	32	34	53	57	55	75	73	74

Second makes the feether and a decided and a second second

さいこうか 人物に対象のできないのではなっているのでのないにはなっているので、またからかれるので、女性によっているできないのであれないのできなっている。

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PARAMETER	Y	EARL	Y	J	AH-H	RR	Al	PR-JI	H.	J	JL-SE	P	00	T-D	EC
	day	nıt	den	day	nit	dån	day	กาเ	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	ī	3	2	1	8	1	2	2	2	2	9	6	0	1	1
AVG thickness Kft	l		.17	1		.10	i		.15	l		. 15	!		.29
AVG trap freq GHz	1		2.3	i		3.3	l		2.3	İ		1.5			2.1
AVG lyr and -N/Kft			110	I		129	1		195			116			91

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL	Y	31	RN-M	AR .	RI	F-J!	HL	31	JL-SI	EP	Q	CT-DI	EC
	day	nıt	ď&n	day	nit	dan	day	nit	den	day	nit	den	day	nit	d&n
Percent occurrence	ī	1	1	0	Θ	8	2	2	2	2	3	3	0	0	8
AVG top ht Kft	1		3.0	•		*	Į.		3.4	1		4.5	l		1.0
AVG thickness Kft	Ι.		.27	ļ					.31	[.31	l	_	.28
RVG trap freq GIIz			1.0			¥			. 52			.70			1.5
AVG lyr grd -N/Kft			63			#	l		61	1		66	l		62
AVG lyr base Kft			2.8	ļ		*	j		3.1	l		4.3	1		.83

EVAPORATION DUCT HISTOGRAM IN FEPCENT OCCURRENCE:

PERCENT	8CCU	RRENCE	YI	ERRL	8	; JI	AN-M	AR	. At	PR-J	אט	31	UL-31	ΕP	0:	CT-Di	EC
			day	nit	dîn	day	nit	d&n	day	nit	den	day	nit	dan	day	nit	d&n
0 to	10	Feet	31	38	38	23	24	24	50	48	49	38	33	3€	12	12	12
18 .6	28	Feet	17	20	19	31	32	32	16	29	18	19	14	12	13	14	14
20 10	30	Feet	14	16	15	22	23	23	10	12	11	9	11	10	16	19	18
30 tc	40	Fect	11	11	11	11	12	12	7	6	7	7	9	8	16	17	17
48 10	50	Feet	7	6	7	6	3	4	3	3	3	5	7	6	13	13	13
50 to	60	Feel	4	4	4	2	1	2	2	1	_2	4	4	4	8	7	8
68 to	70	Feet	2	Z	2	1	- 6	1	1	1	1	3	3	3	5	4	4
78 to	88	Feet	2	1	1	8	8	8	1	9	1	2	2	2	3	3	3
80 to	98	Feet	1	1	1	8	8	8	_ 1	0	1	1	1	1	_2	1_	2
98 10	188	Feet	1	0	1	0	- 6	- 6	1	0	1	1	8	1	1	1	1
above	188	Feet	11	8	9	4	2	3	9	7	8	28	15	17	10	7	9
llean he	e 'ght	Feet	38	34	_36	26	22	24	28	25	26	53	46	49	48	41	45

GENERAL HETEOROLOGY SUHHAPY:

OFHEKUE HELEONOFORI	201111	nr .	<u> </u>												
PAPAMETER	YE	ARLY	3	Ji	H-HR	RR	AS	F JI	หย	31	UL-SI	EP	00	CT-DI	C
[day	n1*	d&n	day	210	d&n	day	nıt	dan	day	nit	din	day	nit	den
% occur FL&SB dcts			9			3			Ð			8	F		8
% occur 2+ EL dcts	İ		8			8	ŧ		9			9	İ		9
AVG station N	ĺ		318			313	ı		316			333	1		311
AVG station -H/Kft	į		12			12			12			13	i		21
AVG sec used Kts	15	15	15	20	23	28	14	13	14	12	11	:2	17	16	16

Specified location: 59 22 N 143 12 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 31088 59 22 H 143 12 E

Radiosonde station height: 20 Feet Surface obs source: MS201 55 00 N 155 00 E

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	Y!	EARL'	Y —	J	RH-MI	R	(AI	PR-JI	ИH	Ji	リレーコ	P	C	CT-DE	EC
	day	_ni t	din	day	nit	d&n	day	nit	dŁn	day	nit	dŁn	day	nit	dŧn
100 MHz	1 6	0	- 0	0	0	0	0	- 9	Ø	1	1	1	0	0	0
1 GHz	7	4	5	3	2	2	6	3	5	11	7	9	7	4	6
3 GHz	9	. 5	7	3	2	3	9	4	6	14	9	12	9	4	7
6 GHz	12	7	10	6	3	4	13	7	18	18	12	15	12	5	9
18 GHz	19	11	15	9	5	7	19	10	15	24	17	20	22	13	18
20 GHz	28	19	24	17	11	14	24	14	19	32	25	29	39	28	33

SUPFACE BASED DUCT SUMMARY:

PARAMETER	YEARL	Y	J	คห-หเ	R.	P.F	R-JI	JH.	1.	JL-S!	EP	01	CT-DI	EC
	day nit	_d&n	day	nit	₫&n	day	nit	din	day	nit	d&n	day	nit	d&n
Percent occurrence	3 3	3	0	1	1	2	3	3	8	8	8	0	1	1
AVG thickness Kft	•	.18	ſ		.11	[.18			.30	ĺ		.12
AVG trap freq GHz	İ	3.6	1		8.9	i		1.6	ļ		.86	l		3.8
AVG lyr grd -N/Kft	l	153			*	,	_	170			99	<u></u>		198

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Υ	J	AH-M	RR	Aí	-R-J	บห	5	UL-SI	EP	0	CT-D	EC
	day	nit	d&n	day	nit	d\$n	day	nit	đ&n	day	nit	dŁn	day	nit	d&n
Percent occurrence	2	2	2	В	9	- 8	2	3	3	5	4	5	1	1	1
AVG top ht Kft			3.8			4.1			3.4			5.2	•		2.7
AVG thickness Kft			.26			. 69		_	.32			.41	l		.23
AVG trap freq GHz			1.5			2.8			.56			.41	1		2.1
AVG lyr grd -N/Kft			67	•		65	ĺ		67	Į.		61	í		76
97G lyr base Kft	Ī		3.7	i		4.1	l		3.1	i		4.9	ļ .		2.5

EVAPORATION BUCT HISTOGRAM IN PERCENT OCCURPENCE:

FANLAKHI	LUN_	DOC 1 HIS	21071	ens 1	IN PE	RUE		LUK	ENCE	<u> </u>							
PERCENT	OCC:	URRENCE	Y	ARLY	1	30	H-HE	1R	R1	PR-JI	JH	JI	JL-SI	P	- 00	CT-DE	EC
			day	nit	din	day	nit	den	day	nit	din	day	nit	dŧn	day	nit	d&n
0 10	10	Feet	49	56	52	52	68	56	55	65	60	52	56	54	34	12	38
18 to	20	Feet	25	28	26	38	38	38	22	24	23	21	26	23	27	31	29
28 10	38_	Feet	10	8	9	8	6	_ 7	5	_ 3	ું 4	9	. 8	8	17	15	16
30 to	40	Feet	4	3	3	3	<u>ī</u>	2	3	1	2	4	3	3	7	- 6	7
40 10	50	Feet	2	1	2	1	9	8	3	í	2	3	2	2	3	2	2
58 to	68	Feet_	1	1	1	1	0	8	2	1	2	_1	1	1	2	8	1
68 to	70	Feet	1	1	1	1	1	1	1	1	1	1	1	1	1	8	- 0
70 to	80	Feet	1	8	1	1	8	8	1	1	1	1	1	1	1	8	8
88 10	90_	Feet	_ 1	. 0	. 8	_ 8	8	_ 8	1_1	_ 8	_ 1	_1		1		8	1_
58 to	100	Feet	1	0	6	Ð	0	0	1	1	1	í	8	1	1	0	1
above	198	Feet	6	3	4	3	2	2	6	2	4	7	ં	5	7	3	5
Hean h	eigh	t Feet	23	15	19	16	12	14	21	13	17	24	_17	26	29	19	24

FARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day n't din	day nit dan	day nit dan	day nit dan	dav nit din
% occur ELASP dets	8	8	9	9	0
% occur 2+ EL dcts	9	8	8	9	9
AVG station N	318	315	316	338	312
AVG station -N/Kft	12] 12	12	13	1,2
AVG sfc wind Kts	12 12 12	12 12 12	11 11 11	10 9.4 10	15 14 15

Specified location:

56 27 N 138 09 E

(#) INDICATES INSUFFICIENT DATA

Radiosonde source : 31168 56 27 N 138 09 E

38 Feet

Radiosonde station height:

Surface obs source: MS201 55 00 N 155 00 E

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

		DOCUMENCE .		*******													
	FRE	RUENCY	YI	EARL	Y	31	H-NB	AR_	Al	R-J	JH	J	UL-SI	EF	0	CT-DE	C
1			day	nit	den	day	nıt	d&n	day	nit	dkn	day	nit	dan	day	nit	dån
	100	HHz	Ø	1	1	*	*	*	0	1	- 0	1	1	1	9	- 8	8
ł	1	GHz	8	5	7	*	*	*	6	4	5	11	8	10	8	3	6
	3	GHz	11	7	9	<u> </u>	*	*	_8	6	_7	14	11	_12	10	4	7
	6	GHz	15	9	12	#	÷	*	13	9	12	18	14	16	13	5	9
1	10	GHz	22	14	18	*	*	#	19	12	16	24	18	21	23	13	18
1	28	GHz	32	23	28	+	÷	*	24	16	28	32	26	29	40	27	33

SURFACE BASED BUCT SUMMARY:

PARAMETER	Y	ARL	Υ	J	AN-HI	AR	AI	R-J	JN	Ji	JL-SI	P	Õ	CT-DI	EC
	day	nit	dan	day	nit	d&n	day	n <u>i</u> t	dan	day	nit	d&n	day	nit	dan
Percent occurrence	3	4	3	0	9	0	2	6	4	8	18	9	1	8	1
AVG thickness Kft			. 17	1		*	}		. 17	İ		.21	1		. 14
AVG trap freq GHz	l		2.0	l		*	i		1.8			.91	i		3.3
PVG lun grd -N/Kft	ŀ		177	_		*			198			112] .		231

ELEVATED DUCT SUMMARY:

PARAMETER	YI	EARL'	Υ	Ji	H-H	R.	AI	R-J(JH	JI	JL-SI	P	8	CT-D	C
	day	nit	ರಹಿಣ	day	nit	d&n	day	nit	d&n	day	nit	din	day	nit	ರಹಿಣ
Percent occurrence	1	1	1	0	0	-0	2	2	2	2	3	3	0	8	8
RVG top ht Kft	1		10	i		38	Ì		3.4	l		4.5)		.70
AVG thickness Kft			.36			.17	L	_	.19	l		.47			.62
AVG trap freq GHz			1.0			1.3			2.2			.54	I —		-19
AVG lyr grd -N/Kft	ļ		180	l		55	l		63	l		73	1		218
RVG lyr base Kft			9.4			29			3.3			4.2			. 59

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCURRENCE	Y	EARL	'	Ji	an-Mi	ir	l A	PR-JI	UH	J1	UL-SI	EP	0	CT-DE	C
		dau	nit	ď&n	day	nıt	d&n	day	nit	d <u>&n</u>	day	nit	den	day	nit	den
6 10	10 Feet	49	56	52	52	68	56	55	65	60	52	56	54	34	42	38
10 to	28 Feet	25	28	26	30	30	38	22	24	23	21	26	23	27	31	29
20 to	30 Feet	10	8	9	8	6		5	3	4	9	. 8	8	17	15	16
30 to	40 Feet	4	3	3	3	1	. 2	3	1	2	4	3	3	7	- 6	7
40 10	50 Feet	2	1	2	1	8	e	3	1	2	3	2	2	3	2	2
58 to	60 Feet	1_	1	1	<u> </u>	8	Ø	2	1	2	1	_ 1	1	2		1_1
60 to	78 Feet	1	1		1	1	1	1	1	1	1	1	1	1	8	-0
79 to	80 Feet	1	8	1	1	9	8	1	1	1	1	1	1	! 1	Ð	8
80 to	90 Feet	_ 1	. 0	. 8	9	0	8	1	9	1	<u>l 1</u>	9	1	1	0	1
98 10	100 Feet	1	9	- 6	0	- 0	-0	1	1	1	1	8	1	1	8	ī
above	100 Feet	6	3	4	3	2	2	6	2	4	7	3	5	7	3	5
Hean he	right Feet	23	15	19	16	12	14	21	13	17	24	17	20	29	19	24

PARAMETER	YE	ARL'	7	Ji	in-m	AR	fil	-71	JН	71	JL-SI	P	00	T-D!	EC
	day	nit	dan	day	nit	ರಕ್ಕ	day	nit	din	day	nit	dan.	day	<u>n12</u>	_d&n_
% occur EL&SB dcts			0			8			0			8			8
% occur 2+ EL dcts			9	l		8	l		0			9	i		9
AVG station N	1		316			313	1		315	i		327	i		389
AVG station -N/Kft	i		11			11	l		12			12	ł		11
AVG sfc wind Kts	12	12	_ ;2	12	12	12	11	11	11	10	9.4	10	15	14	15

HISTORICAL PROPUGATION CONDITIONS SUMMARY IREPS REV 2.1

 Specified location:
 54 42 N
 20 37 E

 Radiosonde source:
 26782
 54 42 N
 28 37 E
 (+) INDICATES INSUFFICIENT DATA

Radiosonde station height: 89 Feet Surface obs source: MS215 55 00 N 15 00 E

PEDIENT NICHOPENIE NE ENHANCEN SUBERCE-TA-SUPERCE DANAD/ESM/COM DANCES:

PERCENT OCCORRENCE	. Ur E	: Nnnn	CED	<u> DURF</u>	nce-	10-3	UKFN	CE K	nunr.	<u>, E2U</u>	CUN	KHIII	<u></u>		
FREQUENCY	7	EARL	Ÿ	j	H-HB	AR	A	PR-J	UN	J	UL-S	EP	0	CT-DE	EC
L	day	nit	dŁn	day	nit	d£n	day	nit	d&n	day	nit	dŁn	day	nit	_d&n
100 MHz	1 -6	3 1	9	9	- 0	- 0	9	1	1	0	1	1	0	0	8
1 GH2	116	8 6	9	2	2	2	15	13	14	18	13	15	3	3	3
3 GH2	11	10	11	3	2	3	13	15	_16	21	17	19	4	5	4
6 GHz	17	13	15	4	3	4	25	18	21	33	25	29	7	7	7
10 GHz	31	ا 26	28	8	6	7	35	28	32	58	46	52	24	22	23
20 GHz	46	42	44	14	14	14	47	42	45	76	66	71	48	47	47

SURFACE BASED DUCT SUMMARY:

PARAMETER	YI	EARL	Y	J	RH-M	R	Al	R-JI	JK	J	JL-SI	P	01	T-D	EC
1	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	5	3	1	1	1	2	6	4	2		- 6	1	3	2
AVG thickness Kft			.26	1		.23			.28			.25	1		.26
AVG trap freq GHz	ŀ		.87	1		1.0			.81	l		.76	l		.86
AVG lyr grd -N/Kft			109	L		124	İ		122			103			85

ELEVATED BUCT SUBMARY:

PARAMETER	Y	ERRL	Υ	JI	RK-H	RR	n AF	P-JI	ÜN	J	JL-SI	EP	00	CT-DI	EC
	day	nit	din	day	nit	d&n	day	១វខ	dan	day	nit	dàn	day	nit	din
Percent occurrence	2	2	2	2	1	2	2	1	2	3	4	4	1	2	2
AVG top ht Kft			3.3	i		3.7	į		2.9	l		5.0	l		1.5
AVG thickness Kft	L		.30	l		.24			.36	L		.31			.31
RVG trap freq GHz			.83			1.1	1		.53			.78			.90
RVG lyr grd -H/Kft			62	1		59	l		71	l		56	i		61
AVG lyr base Kft	L		3.0	1		3.5	I		2.7	1		4.7	1		1.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT	occu	IRRENCE	Y	ARLY	7	J	AH-HI	R	AI	R-JI	JN	JI	JĽ-SI	P	O	T-DE	EC
			day	nit	dŁn	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to	10	Feet	38	31	30	51	47	49	33	38	36	12	19	15	22	21	22
18 to	28	Feet	25	29	27	36	39	38	21	23	22	12	19	15	31	34	33
28 10	38	Feet	15	17	16	6	8	_7	12	15	13	19	21	28	24	25	24
38 to	40	Feet	9	9	9	2	2	2	7	7	7	14	15	15	12	11	12
40 to	50	Feet	5	4	5	1	1	1	4	3	3	10	7	9	5	4	5
50 to	60	Feet	3	2	3	Ð	1	_ 1	_ 3	_ 2	2	_ 7	5	6	2	2	_ 2
68 to	70	Feet	2	1	1	Ø	0	8	2	1	1	4	2	3	1	- 6	1
78 to	88	Feet	1	9	1	8	9	3	2	8	1	2	1	1	9	9	8
80 to	98	Feet	L_1	1	1	0	8	6	2	. 0	1	_ 2	1	2	e	1	8
98 to	100	Feet	1	9	1	1	9	1	1	0	1	1	1	1	8	0	9
above	100	Feet	9	5	7	2	1	2	14	19	12	17	8	13	2	2	2
_ Mean he	ight	Feet	34	26	36	14	14	14	41	32	37	56	37	46	24	22	23

GENERAL HETEOROLOGI	SUMBER 1 :										
PARAMETER	YEARLY		JAN-H	AR	APR-JI	JH	JUL-	SEP	00	CT-DE	C
L	day nit	<u>d&n į</u>	day nit	d&n	day nit	18 0	day ni	t din	day	nit	đền
& occur EL&SB dets		8		0		8		Ú	T -		0
% occur 2+ EL dcts		6		8		0		6	Į.		8
AVG station N		322		314		322		334			318
AVG station -N/Kft		12		12		12		13	ļ		12
AVG sfc wind Kts	14 13	_13j	14 15	14	11 11	11	12 1	1 11	16	16	16

Specified location:

56 33 N 21 01 E

(+) INDICATES INSUFFICIENT DATA

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E

Radiosonde source : 26486 56 33 N 21 01 E Radiosonde station height:

26 Feet

Surface obs source: MS215 55 00 H 15 00 E

DEDICAL ACCUIDENCE AC ENHANCER CUBEACE-TO-CUBEACE PARAP/FCM/CCM PANCES:

PERCENT OCCURRENCE	UF E	nnnn	CED :	SUKF	HUE-	10-3	UKFR	CE KI	HURK	ESIT	, 6011	FRIN	<u> 323.</u>		
FREQUENCY	Y	EPRL	Ÿ	J	AH-HI	1P.	RI	PR-JI	UH	31	UL-S:	EP	G	ות-דס	EC
!	day	nit	dån	day	nit	d&n	day	_nit	dån	day	nit	den	day	nit	d&n
100 MHz	8	Ø	9	е	9	0	8	1	9	9	1	1	9	0	8
1 GHz	18	7	8	2	1	2	15	12	14	18	11	15	3	3	3
3 GHz	11	8	10	3	_ 2	. 2	18	_14	_16	21	14	_18	4	4	4
6 GHz	17	12	15	3	3	3	25	18	21	34	22	28	7	6	7
10 GHz	31	25	28	7	5	6	35	28	32	58	44	51	25	21	23
20 GHz	46	42	44	13	13	13	48	42	45	76	65	71	48	46	47

SURFACE RASED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	Ji	AN-M	AR	AI	2R-J	JH .	J	UL-SI	P	0	CT-DI	EC
	day	nit	dŁn	day	nit	din	day	nit	d&n	day	nit	dan	day	nit	din
Percent occurrence	2	4	3	9	8	- 8	3	- 6	5	3	- 6	- 5	2	2	_ 2
AVG thickness Kft			.21	l		.13	l		.23	l		.29	l		.19
AVG trap freq GHz			2.4	ł		4.6	l		1.7	•		1.1	•		2.1
AVG lyr grd -N/Kft			130			242	L		169	<u></u>		106			73

ELEVATED DUCT SUMMARY:

PARAMETER	YEARL	.Y	J	AN-N	RR	AF	R-JU	JH	J	JL-SI	EP	00	CT-DI	EC
	day nit	_d&n	day	n <u>i</u> t	d&n	day	nit	den	day	nıt	d£n	day	nit	dan
Percent occurrence	2 :	3 3	1	1	1	2	3	3	4	-6	- 5	1	- 2	
AVG top ht Kft		2.2	1		2.1	l		1.4	i		3.2	ì		1.9
AYG thickness Kft		. 24	١		.21	L		.23	L		24			.28
AVG trap freq GHz		1.3	1		1.1	i		1.2			1.2			1,6
AVG lyr grd -N/Kft		65	l		71	l		69	Ì		59	I		64
AVG lur base Kft		2.8			2.0	<u> </u>		1.2			3.8		_	1.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCC	URRENCE	Y	ARL	Y	J	AN-M	R	A	PR-JI	ÜΝ	J	JL-SI	ĘΡ	0	CT-DE	C
			day	nit	d&n	day	nit	dân	day	nit	dŁn	day	nit	din	day	nit	d&n
8 to	10	Fegt	30	31	38	5:	47	49	33	38	36	12	19	15	22	21	22
18 to	20	Feet	25	29	27	36	39	38	21	23	22	12	19	15	31	34	33
_28 to	36	Feet	15	17	_16	6	8	7	12	15	13	19	21	28	24	25	24
30 to	40	Feet	9	9	9	2	2	2	7	7	7	14	15	15	12	11	12
49 10	58	Feet	5	4	5	1	1	1	4	3	3	18	7	9	5	4	5
58 10	68	Feet	3	_ 2	3	. 0	1	1	3	_ 2	_ 2	7	5	6	2	2	2
60 to	70	Feet	2	$\overline{}$	1	8	- 0	- 8	2	1	1	4	2	3	1	- 0	1
70 to	80	Feet	1	8	1	0	9	9	2	8	1	2	1	1	9	8	9
80 to	90	Feet	1	1	1	9	9	ម	2		. 1	2	1	2	9	. 1	Θ
98 to	100	Feet	1	0	1	1	9	1	1	0	1	1	1	1	0	0	8
above	100	Feet	9	5	7	į 2	1	2	14	10	12	17	8	13	2	2	2
Mean he	i gh	t Feet	34	26	38	14	14	14	41	32	37	56	37	46	24	22	23

PARAMETER	YEARL	Υ -	JA	H-MF	iR	AP	R-JI	JN	Jl	JL-SE	Ρ	O	T-DI	EC
	day nit	d£n	day	nit	d&n	day	nit	din	day	nit	d&n	day	nit	dan
% occur EL&SB dcts		9			0			8			Ð			- 6
% occur 2+ EL dcts		9			8			Θ			8	l		8
AVG station N		323			315	1		323			336	ŀ		318
AVG station -N/Kft		13			12			13			14	l		12
AYG sfc wind Kts	14 13	13	14	15	14	11	_11	11	12	_11	11	16	16	16

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

Specified location: Radiosonde source : 26422 56 58 N 24 84 E

56 58 N 24 84 E

(*) INDICATES INSUFFICIENT DATA

Radiosonde station height: 18 Feet

Surface obs source: MS215 55 90 N 15 00 E

DEPOSENT OCCUPATIONS OF ENHANCED SUPERCE-TO-SURFACE RADAR/FSM/COM RANGES:

PERCENI UCCURRENCE I	JP EI	MARK	LED :	יאטכ	コレモー:	10-51	OKFRI	~E_ N	Inuk.	6.011		VI riii	<u>,,,,</u>		
FREQUENCY	Y	EARL	Y	31	AN-MA	ìR	Al	PR-J	JH	J	JL-SI	EP	91	CT-DE	EC
	day	nit	din	day	nit	d&n	day	nit	dŁn	day	nit	d& n	day	nit	d&n
100 MHz	Ø	1	8	0	9	0	8	1	0	0		1	0	9	8
1 GHz	9	7	8	2	1	2	15	12	13	18	13	16	3	3	3
3 GHz	11	9	19	3	2	2	17	14	16	21	17	19	4	4	4
6 GHz	17	13	15	3	3	3	24	17	21	34	25	29	7	7	7
10 GHz	31	25	28	7	5	6	34	27	31	58	46	52	24	22	23
20 GHz	46	42	44	13	13	13	47	42	44	76	66	71	48	46	47

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	ERRL'	Y	J	คห-หา	AR	AI	R-J	JH	31	JL-SI	EΡ	0	CT-DI	EC
_	day	nit	din	day	nit	dtn	day	nit	dŁn	day	nit	din	day	nit	dån
Percent occurrence	1	4	3	Θ	9	9	1	5	3	3	9	6	1	2	2
AVG thickness Kft			.38	i		.22	i		.29	•		.30	Ì		.48
AVG trap freq GHz			. 91	ł		1.1	l		1.2	i		. 85	1		.50
AVG lyr grd -N/Kft			117	<u>L</u>		121	<u> </u>		148			113			95

ELFUATER BUCT SUMMARY:

SPEAULED DOCK DOUBLING	<u> </u>	_													
PARAMETER		RRL			AH-M			R-Ji			JL-SI		-	CT-D	
	day	nit	din	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	dan
Percent occurrence	1	2	2	0	1	1	1	3	2	2	4	3	1	1	1
AVG top ht Kft	ĺ		3.1			4.1	1		3.6	1		3.1			2.1
AVG thickness Kft			.21	<u> </u>		.17			. 18	<u>L.</u>		.29			.21
AVG trap freq GHz			1.7			2.1			2.8	T .		.83			1.1
AVG lyr ard -N/Kft			68	i		55	1		54			78	ļ		68
AVG lyr base Kft	1		2.9			3.9	i		2.9	<u> </u>		3.3	<u> </u>		2.0

EVAPORATION BUCK HISTOGRAM IN PERCENT OCCUPRENCE:

PERCE	NT	GCCI	JRRENCE	YE	ARLY	,	36	AH-HE	iR	AI	R-JU	H	3	JL-SI	EP	00	CT-DE	C
				day	nit	dŁn	day	nit	din	day	nit	din	day	การ	dŁn	day	nit	din
-0	20	16	Feet	39	31	30	51	47	49	33	38	36	12	19	15	22	21	22
10	to	28	Feet	25	29	27	36	39	38	21	23	22	12	19	15	31	34	33
20	to	30	Feet	15	17	16	6	9	7	12	15	13	19	21	28	24	25	24
30	10	40	Feet	9	9	9	2	2	2	7	7	7	14	15	15	12	11	12
40	10	58	Feet	5	4	5	1	1	1	4	3	3	10	7	ō	5	4	5
59	to	69	Feet	3	2	3	i e	1	1	3	2	2	7	<u> </u>	6	2	2	2
60	tc	78	Feet	2	1	1	8	8	9	2	1	1	4	2	3	1	9	1
78	to	80	Feet	1	0	1	6	9	6	2	8	1	2	1	1	9	8	9
88	to	90	Feet	1	1	1	9	0	. 0	<u>i 2</u>	8	1	2	1	2	8	1	8
99	10	100	Feet	1	9	1	1	8		1	8	1	1	1	1	0	0	8
abo	ve	100	Feet	9	5	7] 2	1	2	14	18	12	17	8	13	2	2	2
Nest	'n	eich	t Feet	34	26	39	14	14	14	41	32	37	56	37	46	24	22	23

GENERAL METEOROLOGY	SUMBHRY:				
PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit_din	day nit dan	day nit din	day nit din	day nit dan
% occur EL&SB dcts	8	0	0	0	8
% occur 2+ EL dcts	9	8	9	8	Ð
AVG station H	321	314	328	332	317
AVG station -N/Kft	12	12	12	13	12
AVG sfc_wind Kts	14 13 13	14 15 14	11 11 11	12 11 11	16 16 16

Specified location: 59 25 H 24 48 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 26038 59 25 H 24 48 E

Radiosonde station height: 46 Feet Surface obs source: HS215 55 00 N 15 00 E

PERCENT OCCUPPENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

PERCENI (ULCURRENCE	UF E	mmm	LED.	JUKE	nçe-	10-3	JK1 111	<u> </u>	INIT.	<u></u>		K. 1111	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		
FRE	DUENCY	Y	EARL'	Y	J	AH-H	FIR	- AI	PR-JI	JH.	7	JL-SE	P	00	CT-DE	EC
l		day	nit	dan	day	nit	d&n	day	nit	dŁn	day	nit	d&n	day	nit	dan
100	MHz	1	1	1			#	1	1	1	1	1	1	0	- 0	0
1	GHz	13	9	11			#	17	13	15	26	13	16	3	2	2
! з	GHz	16	12	14	*	*		20	16	18	23	17	20	_3	3	3
6	GHz	23	17	28	+	*	*	27	19	23	36	25	3:	7	- 5	6
10	GHz	48	32	36		•	•	37	29	33	69	46	53	24	21	22
28	GHz	58	52	55	j *			49	43	46	77	66	72	48	46	_ 47_

CUPEACE BASED DUCT SUMMARY.

PARAMETER	YI	EARL	Υ	J	H-HR	iR	AF	R-J1	JH	Ji	JL-SI	P	Ö	CT-D	EC
	day	nit	dŁn	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	5	4	0	8	0	7	9	8	7	10	9	1	1	1
AYG thickness Kft			.18	İ		*	l		.22	ı		.20			.13
AVG trap freq GHz			2.2			*	l		1.9	ł		1.1			3.6
AVG lun grd -N/Kft			118	L		*			132	<u> </u>		87			135

FLEVATED DUCT SUMMARY:

AVG sfc wind Kts

development independ bested in addition of the personal bested in the second of the second second and the

EFFAUER ACCT SOUDDL	<u> </u>													
PARAMETER		RLY		AH-M			S-1i			IL-SE			CT-Di	
	day n	it din	day	nıt	dŁn	day	nit	d&n	day	nit	dan	day	nit	dtn
Percent occurrence	1	1 1	0	8	0	0	1	1	:		1	1	1	1
AVG top ht Kft	l	4.1			5.3	l		3.6	i		3.7	l		4.0
AVG thickness Kft	i	.40			.17			. 55	L_		. 54			.34
AVG trap freq GHz		.80			.73	i		.27			1.2			1.0
AVG lyr grd -H/Kft	!	86			118	l		72			83	l		72
AVG lyr base Kft	ł	3.9			5.2			3.3	L		3.4	İ		3.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

FAHLA	CH L	TOK 1	DOC! HIS	<u>5 UGP</u>	(HI)	IN P	<u> RUEI</u>	M. Of	<u> </u>	EUCI	•							
PERCE	NT	0001	URRENCE		ARL			AH-HI			R-JI			UL-SI		,	CT-DE	
				day	nıt	den	day	nit			nit	d&n	day	nit	dan	day	nit	d&n
9	10	10	Feet	30	31	30	51	47	49	33	38	36	12	19	15	22	21	22
10	10	28	Feet	25	29	27	36	39	38	21	23	22	12	19	15	31	34	33
20	to	30	Feet	15	17	16	6	8	_ 7	12	_15	_13	19	21	28	_24	25	24
39	10	40	Feet	T 3	9	9	2	2	2	7	7	7	14	15	15	12	i 1	12
40	to	50	Feet	5	4	5	1	1	1	4	3	3	16	7	ş	5	4	5
58	to	69	Feet	ļ з	2	3	8	1	. 1	3	. 2	2	7	_5	6	_ 2	2	2
60	10	79	Feet	2	1	1	9	0	8	2	1	1	1 4	5	3	1	0	1
78	to	80	Feet	1	9	1	6	8	0	2	9	1	2	1	1	9	9	0
89	to	98	Feet	1 1	1	1	0	8	9	2	9	1	3	1	_2	8	1	. 0
98	to	100	Feet	1 1	0	1	1	0	1	1	0	1	ī	1	1	8	8	9
abo	ove	108	Feet	9	5	7	2	1	2	14	10	12	17	8	13	2	2	2
Head	n h	a i gh	t Feet	34	26	38	14	14	14	41	32	37	56	37	46	24	22	23

Ĩ

GENERAL METEOROLOGY SUMMARY: PARAMETER YEARLY JAN-HAR RPR-JUN JUL-SEP OCT-DEC day nit dan day nit dan day nit dan day nit dan day nit_dan 0 0 0 % occur EL&SB dcts 8 8 % occur 2+ EL dcts 0 8 ø в 8 321 314 321 334 316 AVG station H 13 12 13 14 12 AVG station -H/Kft

11

11

16

Specified location: 57 43 N 11 46 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 2004 57 43 N 11 46 E

Radiosonde station height: 16 Feet

Surface obs source: MS215 55 00 N 15 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

PERCENT C	OCCURRENCE	UP E	<u>nann</u>	LED .	SUKF	ncz-	10-2	UKPH	LE K	nunn .	<u> </u>	<u>CUN</u>	KAR	<u>ue3.</u>		
FRE	RUENCY	Y	EARL	Y	J	AN-M	RR	n	PR-JI	JH	J	JL-SI	Р	0	CT-D	EC
		day	nit	din	day	nit	din	day	nit	din	day	nit	den	day	nit	din
109	MHZ	8	9	9	Ð	- 0	0	9	8	9	8	0	0	+	#	*
1	GHZ	11	7	9	2	2	2	15	11	13	17	9	13	*		*
3	GH2	14	9	11] 3	2	2	18	12	15	28	12	16	L * .	÷	*
6	GHz	20	13	17	3	3	3	25	15	28	33	28	26	*		4
18	GHz	33	25	29	7	5	6	35	26	30	57	43	50	+	*	+
20	GHz	45	39	42	13	14	14	47	48	44	76	64	78	l +	4	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YI	EARL'	Y	3	AH-H	AR	RI	PR-J	UH	J	UL-S	EP	0	CT-DI	EC
	day	nit	din	day	nit	dên	yer.	nit	d£n	day	nit	dan	day	nit	d\$n
Percent occurrence	1	2		0		1	2		2	1	3	2	0	. 0	9
AVG thickness Kft			.28	•		. 15	i		.36	1		.33	i i		*
AVG trap freq GHz			2.7	ĺ		5.4	i		.76	l		2.0	l		+
AVG lyr grd -N/Kft			114	L		162			69	L.		112	L		#

ELFUATED DUCT SUNMARY:

PARAMETER	Y	EARL	Y	JI	RH-M	AR .	A!	PR-J	UH	J	JĽ-SI	EP	0	CT-D	EC
	day	nit	dan	day	nit	d&n	day	nit	dŁn	day	การ	d&n	day	nit	d&n
Percent occurrence	4	5	4	1	1	1	2	4	3	9	12	11	2	2	2
AVG top ht Kft			2.7	l		2.6	l		2.3			3.2	i		2.?
AVG thickness Kft			.24			.21			.29			.27			.20
AVG trap freq GHz			1.6	Г		3.8			.75			1.2			1.5
AVG lyn grd -N-Kft			57	l		53			57	l		57	1		62
AVG lyr base Kft	l		2.5	ł		2.5	ļ		2.1	l		3.0	l		2.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCC	URRENCE	Ϋ́I	EARL	Y	J	M-MA	R	RI	PŘ-JI	UN	J	UL-SI	EP	00	CT-DE	С
			day	nit	d&n	day	nit	d&n	day	nit	dan	day	nit	dŁn	day	nıt	din
8 to	19	Feet	39	31	38	51	47	49	33	38	36	12	19	15	22	21	3.2
18 to	20	Feet	25	29	27	36	39	38	21	23	22	12	19	15	31	34	33
20 10	38	Feet	15	17	16	6	- 8	7	i2	:5	13	19	21	_20	24	25	24
38 to	40	Feet	9	è	9	2	2	2	7	7	7	14	15	15	12	11	12
48 10	58	Fret	5	4	5	1	1	1	4	3	3	10	7	9	5	4	5
_ 50 to	69	Fect	3	2	3	9	1	1	3	2	2	7	_ 5	6	2	2	2
66 to	76	Feet	2	1	1	8	- 6	- 8	2	1	1	4	2	3	1	0	1
78 to	80	Feet	1	0	1	9	ø	8	2	Q	1	2	1	1	0	0	9
80 to	98	Feet	ı	_ 1	1	0	3	. 0	_ 2		1	_ 2	:	2	8	1	8
98 to	100	Feet	1	8	1	ī	8	1	ī	- 6	1	1	- 3	1	8	8	8
above	100	Fret	9	5	7	2	1	2	14	10	12	17	8	13	2	2	2
llean to	t i gh	t Feet	34	26	38	14	14	14	41	32	37	_56	37	46	24	22	23

PENERNT WE LEGROTORA	SUNNAKY:	
PARAMETER	YEARLY JAN-HAR APR-JUN JUL-SEP	OCT-DEC
	day nit dan day nit dan day nit dan day nit da	iniday nit dan
% occur EL&SB dcts	0 0	8 9
% occur 2+ EL dcts	0 0	6 8
AVG station R	321 315 321 33	32 317
AVG station -N/Kft	13 12 13	14 12
AVG sfc wind Kts	14 13 13 14 15 14 11 11 11 12 11 1	11 16 16 16

(*) INDICATES INSUFFICIENT DATA Specified location: 55 46 N 12 31 E 55 46 H 12 31 E Radiosonde source : 6181

Radiosonde station height: 131 Feet Surface obs source: MS215 55 00 N 15 00 E

PEDCENT OFFIIDEBUCE OF ENHANCED SUBFACE_TO_SUBFACE DARROVESY.COM DANCES.

•	CHCCHI OCCORRCINGE	<u> </u>	3;1;3;00	- CD . \	JUK! !	100	. 0 - 3	JK1 111		TATE OF			1,111,1	3-4.		
[FREQUENCY	Y	EARL	<i>-</i>	Ji	AN-MA	3.6	AI	PR-J	UNE	J	JL-S!	ΞP	00	CT-DE	C
ı		day	nit	d&n	day	nit	d&n	day	nit	dan	day	nit	dan	day	nit	dån
	100 HHz	9	9	9	e	8	- 9	8	1	0	Θ	0	Ð	Ø	-0	8
1	1 GHz	9	7	8	2	2	2	14	12	13	17	16	14	3	2	3
ı	3 GHz	1 1 5	8	9	3	_ 2	3	17	13	15	20	_13	16	3	3	3
1	6 GKz	17	32	14	3	4	3	23	16	20	33	21	27	7	- 5	6
İ	10 GHz	31	24	27	7	S	6	34	26	30	57	43	50	24	21	23
ı	20 GHz	46	41	43	13	14	14	46	41	43	76	64	78	48	46	47

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL	Y	J	AH-H	RR	AI	R-J	JH	J	UL-S	EP	0	CT-DI	EC
	day	nit	<u>d&n</u>	day	nıt	d&n	day	nıt	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	2	1	8	1	1	0	3	2	1	4	3	i	1	1
AVG thickness Kft	}		.26	ŀ		. 16	l		.34			.23	ļ		.31
RYG trap freq GHz	i		1.2	1		.90	i		. 44			1.5	1		1.8
AVG lyr grd -: 1/Kft	L		140	<u> </u>		153			85			200			124

ELEVATED DUCT SUMMARY:

AND THE PROPERTY OF THE PROPER

PARAHETER	YE	ARL	Υ	J	AH-H	AR	RI	PR-JI	ЙH	Ji	JL-SI	ĒΡ	0	ום-זכ	EC
	day	n15	dŁn	day	nit	đần	day	nit	d&n	day	nit	d&n	day	nit	dan
Percent occurrence	6	8	7	2	3	3	4	4	4	12	19	16	4	6	- 5
AVG top ht Kft	l		3.2	į		2.2			3.5	Ì		3.6			3.4
AVG thickness Kft			.29	L.,		.27	L	_	.30	i		.31	!		.28
AVG trap freq GHz			.80	1		.82			.61			.83			.92
AVG lyr grd -N/Kft	1		58	i		63	1		€2	ļ .		51	l		57
AVG lyr base Kft			3.3			2.0	l		3.3	l		3.4	•		3.2

THE -CED

OCT-DEC

FAHLOKHITON DOC! WIS	STUGKAN IN PE	EKCEMI UCCUKI	KENCE:
PERCENT OCCURRENCE	YEARLY	JAH-MAR	APR-JUN

CHOCHI	000	NKKENCE	, "	FILE	•	, ,,	***-**			- K-3	VII	, ,,	JE-3	C.F	, ,	C 1 ~ D1	
			day	nıt	d&n	day	nit	_d&n	day	nit	dŁn	day	nit	d&n	day	nit	dan
8 10	10	Feet	29	31	39	51	47	49	33	38	36	12	19	15	22	21	22
10 to	26	Feet	25	29	27	06	39	38	21	23	22	12	19	15	31	34	33
28 20	38	Feet	_15	17	_ 16	6	8	7	12	15	13	19	21	28	24	25	24
38 to	40	Feet	9		9	2	2	2	7	7	7	14	15	15	12	11	12
48 to	56	Feet	5	4	5	1	1	1	4	3	3	10	7	9	5	4	5
_50 to	60	Feet _	3	2	3	8	1	1	<u> 3</u>	_ 2	2	7	5	_ 6	2	2	_ 2
60 to	70	Feet	2	1	1	0	- 0	0	2	1	1	4	2	3	1	9	1
78 to	86	Feet	1	9	1	0	9	8	2	8	1	2	1	1	l ø	8	8
_ 88 to	98	Feet	1	1	1	8	. 8	. 0	2	0	1	2	:	_ 2	9	1	0
90 to	100	Feet	1	6	ı	1	8	1	1	8	1	1	1	1	9	Ø	8
above	100	Feet	9	5	7	2	1	2	14	18	12	17	8	13	2	2	2
Hean he	e i gh	Feet	34	2€	38	14	14	14	41	32	37	56	37	46	24	22	23

PARAMETER	Y	ERRL	Y	Jf	H-H	RR	A	PPJI	JN	Ji	JL-S	EP _	00	CT-DI	EC	
	day	nit	_d&n	day	nit	ದಕ್ಕಿ	day	nit	dan	day	DIL	d&n	day	nit	dan	
% occur EL&SB dcts			Ð			Ð	Г		9			8			8	
% occur 2+ EL dcts			8	İ		8	1		0			1	1		8	
AVG station H			321	l		315	i		328			332	ı		318	
AVG station -N/Kft			13	İ		12	l		12			14	!		13	
AVG sfc wind Kts	14	13	13	14	15	14	11	11	11	12	11	11	16	16	16	

Specified location: 54 12 N 16 12 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 12105 54 12 N 16 12 E

Radiosonde station height: 108 Feet

Surface obs source: MS215 55 00 N 15 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESH/COM RANGES:

FREQUENCY	Y	ARL'	Υ	3	AN-M	RK	A	PR-JI	JH	JU	JL-SI	EP _	0.0	CT-DE	EC
	day	niz	d£n	day	nit	dŁn	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 HHz	9	8	9	*	¥	*	0	8	0	0	9	8	Ð	8	0
1 GHz	12	7	9	*	*	*	15	18	12	18	8	13	2	2	2
3 GHz	14	8	11	*	*	*	17	11	14	21	11	16	3	3	3
6 GHz	21	12	17		*	*	24	14	19	34	19	26	6	5	5
18 GHz	39	29	34	*	*	5	34	24	29	58	41	50	24	28	22
28 GHz	57	49	53	*		4	47	39	43	76	63	70	47	45	46

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	ERRL'	Y	31	RN-M	AR	Al	R-JU	H	JI	JL-SI	P	Q	CT-D	EC
	day	nit	din	day	nit	dŁn	day	ni:	d&n	day	nıt	ರಹಿಣ	day	nit	d&n
Percent occurrence	1	9	1	6	9	0	1	Ð	1	3	8	2	θ	0	0
AVG thickness Kft	i		.20	ì		#	1		.08	Ī		.42			.11
AVG trap freq GHz			1.2	1		*	ł		2.0			1.0	l		.70
AVG lyr grd -N/Kft	L		386	L		*_	L		189	Ĺ		149	<u> </u>		819

ELEVATED DUCT SUMMARY:

CLEVITLE BOCT SOMME															
PARAMETER	Y	:ARL	Y	Ji	คห-หเ	RR	ลเ	PR-JI	บห	J	JL –SI	EP	01	CT-DI	EC
	day	n <u>í</u> t	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	dkn
Percent occurrence	ı	9	1	0	0	9	3	- 0	2	1	8	1	0	- 6	0
87G top ht Kft	l		4.1	1		*			3.9	İ		4.3			*
AVG thickness Kft			.33	l		*	l		.48	l _		.27	i		*
AVG trap freq GHz			2.5			*			3.0			2.1			*
AVG lyr grd -N/Kft			79	i					89			68	İ		*
AVG lyr base Kft	L		3,9	L _			L		3.7			4.1	L		*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT O	CCURRENCE	YE	ARLY	ľ	- 31	ลห-ท	AR	R	PR-J	ŪN	Ji	UL-SI	ΕP	0	CT-DI	EC
		day	nit	d&n	day	nit	d&n	day	nit	dkn	day	nit	dan	day	การ	dan
0 to 1	0 Feet	30	31	38	51	47	49	33	38	36	12	19	15	22	21	22
18 to 2	8 Feet	25	29	27	36	39	38	21	23	22	12	19	15	31	34	33
20 to 3	0 Feet	15	17	16	6	8	7	12	15	13	19	21	26	24	25	24
30 to 4	0 Feet	9	9	9	2	2	2	7	7	7	14	15	15	12	11	12
40 to 5	0 Feet	5	4	5	1	1	1	4	3	3	16	7	9	5	4	5
50 to 6	0 Feet	3	2	3	9	1	1	3	_2	. 2	_ 7	5	_ 6	_2	2	2_
60 to 7	8 Feet	2	1	1	9	0		2	1	1	4	2	3	1	0	1
78 to 8	0 Feet	1	9	1	9	9	9	2	8	1	2	1	1	; 8	8	8
89 to 9	0 Feet	1	1	1	_0	- 0	8	2	0	1	_ 2	1	2	0	1	. 0
98 to 1	88 Feet	1	8	1	1	0	1	1	9	1	Ti		1	0	Ø	Ġ
above 1	08 Feet	9	5	7	2	1	2	14	10	12	17	8	13	2	2	2
Hean hei	ghs feet	34	35_	38	13	14	14	41	32	32	56	37	4£	24	22	23

PARAMETER	YEARLY	JAN-KAR	APR-JUN	JUL-SEP	OCT-DCC
	day nit dan	day nit dan	day nit den	day nit dan	day nit dan
% occur EL&SB dcts	8	0	8	8	8
% occur 2+ EL dcts	0	8	8	0	8
AVG station N	322	312	321	335	328
AVG station -N/Kft	13	11	13	15	12
AVG sfc wind Kts	14 13 13	14 15 14	11 11 11	12 11 11	16 16 16

IREPS REV 2.1

54 45 N 17 31 E

(*) INDICATES INSUFFICIENT DATA

Specified location: Radiosonde source : 12120 54 45 N 17 31 E

7 Feet Radiosonde station height:

Surface obs source: MS215 55 00 H 15 00 E

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE PADAR/FSM/COM RANCES:

CERCENT OCC	OMPRINCE OF S	-111111111	CLD .	JUn 1	nce-		7r 1 110		יחוועו			E 14114	163.		
FREQUE	NCY '	YEARL	<u>Y</u>	J	BN-MI	iR	8F	R-JU	JN	Jt	JL-SI	EΡ	00	T-DE	C
L	day	nit	dîn	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
180 MH	z (9 0	Θ	ŧ	*	*	0	8	Ø	\$	0	0	0	8	8
1 GH	z 13	27	18	#	*	*	15	11	13	19	9	14	4	2	3
_3_GH	z 1	5 8	12	*	÷	*	18	11	15	22	11	16	_4	3	4
6 GH	z 2:	2 13	18		*	*	24	15	19	35	19	27	8	5	6
10 GH	z 4	9 29	34	*	*	*	35	25	30	59	42	50	25	20	23
20 GH	z 5	7 49	53	*	*	*	47	39	43	77	63	70	48	45	47

SUPPORT BASED DUCT SUMMARY.

	2011111						_					_			
PARAMETEP	YE	ARL	Y	J	RN-MI	ar	A	P-J1	UH	J (JL-SE	EP :	0	CT-DI	EC
	day	nit	d&n	day	nit	dån	day	nit	a&r	day	nıt	d&n	day	nit	d&n
Percent occurrence	2	1	1	9	8	0	2	1	2	5	1	-3	2	0	1
AYG thickness Kft			.22	l		*	l		. 25			.26	ŀ		.14
AVG trap freq GHz	!		1.5			*	ı		2.0			1.9			.76
AVG lyr grd -N/Kft	Ĺ		157	L		*			82			138	i		251

CI EUGTED BUCT CHUMGDY.

PARAMETER	78	ARL'	Y	J	ลห-หเ	RR	Ai	R-J	JN	J1	JL-SI	P	00	CT-DI	EC
	day	nit	d&n	day	rit	d₽n	day	nit	d&n	day	nit	dan	day	nit	dkn
Percent occurrence	3	5	4	2	11	7	3	2	3	4	4	4	2	3	3
AVS top ht Kft			3.4	İ		1.2	l		3.0			1.8	ł		7.5
AVG thickness Kft			.25	i		. 15			.28			.31			. 26
AVG trap freq GHz			1.8			3.2			1.3			1.8			.80
AVG lyr grd -N/Kft			61	1		56	1		57			60	ļ.		71
AVS lyr base Kft			3.2	1		1.1	i		2.7	i		1.6	l		7.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCI	URREHCE	Y	ARL'	<u> </u>	J	H-HR	AR.	AI	PR-J	JN	J	UL-SI	EP	0	CT-DI	EC
			day	nit	dtn	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nıt	dan
8 10	10	Feet	30	31	30	51	47	49	33	38	36	12	19	15	22	21	22
18 to	28	Feet	25	29	27	36	39	38	21	23	22	12	19	15	31	34	33
28 to	36	Feet	15	17	16	6	8	7	12	15	13	19	21	_ 20	24	25	24
30 to	40	Feet	9	9	9	2	2	-2	7	7	7	14	15	15	12	11	12
40 to	50	Feet	5	4	5	1	1	1	4	3	3	10	7	9	5	4	5
50 to	60	Feet	3	2	_ 3	8	1	1	_3	2	_ 2	7	5	6	2	2	2
68 to	78	Feet	2	1	1	8	8	Ð	2	1	1	4	Ź	3	1	0	1
70 to	89	Feet	1	9	1	0	9	Ð	2	0	1	2	1	1	8	9	0
88 to	99_	Feet	1 1	1	1	9		9	2		1	2	1	2	_0	_1	. 0
98 to	100	Feet	1	0	1	1	0	1	1	0	1	1	1	1	9	9	0
above	100	Feet	9	5	7	2	1	2	14	10	12	17	8	13	2	2	2
Mean ne	e i gh	t feet	34	26	30	14	14	14	41	32	37	56	37	46	24	22	23

PARAMETER	YE	ARL	7	J	111-Hi	R	AF	R-J	אט	7(JL -SI	EP	00	T-DE	EC
!	day	nit	d&n	day	nit	děn	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			8			8			0			8			9
% occur 2+ EL dcts			8	l		0			0	i		0	į		ø
4VG station H			324			318			323			336	l		318
AVG station -N/Kft			13			12			12	1		14	1		12
AVG sfc wind Kts	14	13	13	14	15	14	11	_11	11	12	11	11	16	16	16

Specified location: 57 39 N 18 21 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 2160 57 39 N 18 21 E

Radiosonde station height: 148 Feet

Surface obs source: MS215 55 00 N 15 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE REDAR/ESM/COM RANGES:

PERCENT OCCURRENCE	UP E	MULLIN	LED :	SURFI	NCE-	10-26	UKFR	. E KI	אחעי	ESIL	CON	KHAL	<u> </u>		
FREQUENCY	Y	EARL'	Ÿ	- 31	AN-Mi	R	Al	PR-J	אנ	70	JL-SI	ρ	90	CT-DE	EC
	day	nıt	d&n	day	nit	<u>d&n</u>	day	nit	d&n	day	nıt	den	day	nit	d&n
100 MHz	0	0		0	. 6	0	0	6	- 0	1	1	1	9	- 0	0
1 GHz	10	7	9	2	2	2	16	12	14	20	12	16	3	2	2
3_GHz	12	9	10	l 3	2	3	19	13	16	24	16	_ 20	3	. 3	3
6 GHz	18	13	15	4	3	4	25	17	21	36	25	30	7	5	- 6
10 GHz	32	25	28	8	6	7	36	27	31	69	46	53	24	21	22
20 GHz	47	42	44	14	14	14	48	41	45	77	66	72	48	46	47

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	J	AN-H	₹R	Al	R-J	JH	31	UL-SI	P	01	CT-DI	EC
	day	nit	d&n	day	nit	dan	day	nit	d&n	day	nıt	d&n	day	nit	dan
Percent occurrence	4	4	4	1	1	1	4	5	5	8	10	9	1	1	1
AVG thickness Kft	l		.21			. 13	ĺ		.22			.29	i		.20
AVG trap freq GHz			2.6			3.4	İ		2.1			1.4	l		3.7
RVG lyr grd -N/Kft	L _		112			133	<u> </u> _		154	Ĺ		75			88

ELEVHTED DUCT SUMMARY:

PARAMETER	Y	ARL'	<u> </u>	70	<u>ทห–หค</u>	3R	AF	R-J	MU	JU	JL-SE	EP.	00	CT-DI	EC
	day	nit	d&n	day	nit	den	day	nit	d&n	day	nit	d&n	day	nit	dan
Percent occurrence	4	8	 6	2	- 2	2	3	- 8	- 6	?	16	12	4	4	4
RYG top ht Kft			1.9	i		2.3	i		.90			2.1			2.5
AVG thickness Kft			.20			.13	i		. 17	L		.31			.20
AVG trap freq GHz			1.8			2.9			2.1			.68	_		1.7
RVG lyr grd -N/Kft			56	1		57	ļ		55	l		56			54
AVG lyr base Kft	l		1.8	<u>.</u>		2.2	L		.77			1.9	L		2.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT	occu	RRENCE	Y	ARL	ľ	J	H-HI	R	RI	PR-JI	JN	J	JL-SI	ΕP	00	CT-DE	EC
<u> </u>			day	nit	d&n	day	nit	dŁn	day	nit	dan	day	ri i t	d&n	day	nit	d&n
0 to	10	Feet	38	31	39	51	47	49	33	38	36	12	19	15	22	21	22
10 to	20	Feet	25	29	27	36	39	38	21	23	22	12	19	15	31	34	33
20 to	30	Feet	15	17	16	6	88	7	12	15	13	19	21	20	24	25	24
30 to	40	Feet	9	9	9	2	. 5	2	7	7	7	14	15	15	12	11	12
48 to	50	Feet	5	4	5	1	1	1	4	3	3	10	7	9	5	4	5
50 to	68	Feet	_ 3	2	3	9	1	1	3	2	_ 2	7	_ 5	6	_ 2	. 2	2
68 to	70	Feet	2	1	1	Ø	9	8	2	1	1	4	2	3	1	Ð	1
70 to	89	Feet	1	9	1	8	9	8	2	0	1	2	1	1	8	Θ	9
23 98	98	Feet	_ 1	_ 1	1	9	9	_ e	_ 2	0	1	2	_ 1	2	6	1	8
98 to	100	Feet	1	9	1	1	9	1	1	Ø	1	1	1	1	0	- 0	0
above	100	Feet	9	5	7	2	1	2	14	10	12	17	8	13	2	2	2
Mean he	1 gr.t	Fegt	34	26	_ 38	14	14	_14	41	32	37	56	37	46	24	22	23

FARAMETER	ΥŁ	ARLY	,	JF	in-ni	aR	AF	R-J	ИU	J	JL-SI	P	00	T-DE	C
	day	nit	d\$n	day	nit	din	day	713 5	den	day	nit	din	day	n::	den
% occur EL&SB dcts			0			9			9	-		1			9
% occur 2+ EL dcts			0			9			9	į .		1	l		e
AVG station N			320			313	İ		319			332	i		317
AVG station -N/Kft			13			12	-		13			15	l		13
RVG sfc wind Kts	14	13	13	14	15	14	11	11	11	12	11	. 11	16	16	16

Specified location:

52 40 H 1 40 E

(*) INDICATES INSUFFICIENT TATA

à

52 40 N 1 40 E Radiosonde source: 3496 Radiosonde station height:

46 Feet

Surface obs source: MS216 55 00 H 5 00 E

REPORT OF CHIPPENCE OF ENHANCER SUPERCE-IN-SUPERCE PARAD/FSM/COM PANCES:

-Caceiti Octobre		-11//////	CED .	2000			951 111				~~~	10000	,,,,,		
FREQUENCY		YEARL	Ÿ]	RN-MI	AR.	Al	PR-JI	NH	Ji	JL-SE	EP	Ü	LT-DE	C
	da	nit	d&n	day	nit	dån	day	nıt	d&n	day	nit	d&n	day	nit	d&n
188 MHz		9 0	0	0	Ø	0	1	0	0	1	1	1	0	- 0	8
1 GHz		7 4	5	2	1	1	10	5	7	14	7	10	3	ı	2
3 GHz		9 5	7	1 2	1	2	12	6	9	17	9	13	- 4	2	_3
6 GHz	1	5 9	12	4	2	3	17	10	13	36	19	24	11	7	9
10 GHz	3	9 31	35	19	16	18	34	23	28	59	49	54	44	36	49
20 GHz	6	1 54	58	46	41	43	52	43	47	76	78	73	78	62	66

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	J	AK-M	AR	AF	R-JI	UH	J	JL-Si	P	00	T-D	EC
	day	nit	d&n	day	nit	d&n	day	nıt	d&n	day	nit	d&n	day	nit	din
Percent occurrence	4	4	4	1	2	2	6	4	5	7	7	7	3	_ 2	3
AVG thickness Kft			.19	l		. 15			. 20	ł		.26	ı		. 15
AVG trap freq GHz			2.1	Į		3.1			1.9			1.2	ļ		2.4
AVG_lyr_ardN/Kft			94	ĺ		120	l		88			67	L		102

FI EVETER BUCT SUMMERY:

todad in a control of the control of

PARRHETER	Y	EARL	Y	JI	AH-M	AR.	AI	PR-JI	UN	Ju	JL-SE	EP	00	T-DI	EC
	day	nıt	d&n	day	nit	d&n	day	nit	dan	day	nit	den	day	nit	d&n
Percent occurrence	8	11	9	4	5	5	10	11	11	13	19	16	4	8	6
AVG top ht Kft	İ		3.0	1		3.9			1.9	ŀ		3.4			2.7
AVG thickness Kft	L		.25	<u> </u>		.18	l		.20	l		.33			.29
AVG trap freq GHz			1.2			2.1			1.3			. 64			.91
AVG lyr grd -N/Kft			58			54	1		62	l		68			56
AVG lum base Kft			2.8	l		3.7	ł		1.7	l		3.2			2.5

PERCENT	OCCL	JRRENCE	YE	RPL	,	J	คพ-พค	RR	RI	PR-J:	JH	31	L-SI	EP .	- 00	CT-DE	:C
			day	nit	džn	day	nit	d&n	day	การ	d£n	day	nit	d&n	day	nit	d&n
0 to	10	Feet	18	28	19	22	25	24	25	29	27	12	13	12	12	15	13
19 to	20	Feet	22	26	24	31	34	33	25	38	27	14	18	16	19	23	21
20 10	38	Feet	23	24	23	27	25	26	19	20	20	19	22	21	26	27	26
30 to	40	Feet	16	16	16	12	12	12	12	10	11	18	20	19	23	21	22
40 tc	50	Feet	8	6	7	3	2	2	5	3	4	13	12	12	12	9	10
50 to	60_	Feet	4	3	4	1	1	1	3	2	2	8	6	7	5	3	4
60 to	70	Feet	2	1		9	0	Ø	1	1	1	3	2	3	1	1	1
70 to	89	Feet	1	9	1	0	0	9	1	1	1	2	1	1	9	0	8
89 : 0	99	Feet	1	0	9	_0	8		1	0	1	1	1	1	0	. 0	8
98 10	100	Feet	8	9	0	0	0	Ø	1	0	1	1	8	1	0	0	Ø
above	100	Feet	j 5	2	4	1	1	1	8	3	5	11	4	7	2	1	1
Hean he	e i ahi	Feet	33	25	29	22	19	21	33	24	28	45	33	39	30	26	28

PARAMETER	YE	PRL'	Y	JA	H-H	RR	AP	R-J	JH	JU	JL-SI	P.	01	CT-DE	EC
	day	การ	dan	day	1112	d&n	day	niz	d&n	day	niz	d&n	day	nit	dàn
% occur EL&SB dcts			Θ			8			0			1			- 0
% occur 2+ EL C ts			1			8	i		0	į .		2			Э
AVG station N	ŀ		325			318			326	ł		335	l		322
AVG station -N/Kft			14			13			14	l		15			13
AVG sfc wind Kts	16	16	16	18	18	18	14	13	14	14	14	14	20	29	20

Specified location: 54 31 N 9 33 E

Radiosonde source: 16035 54 31 N 9 33 E

Radiosende station height: 157 Feet Surface obs source: MS216 55 90 N 5 00 E

PERCEUT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE PADAR/ESH/COM RANGES:

FREQUENCY	ŢŸ	EARL	Y	31	AH-HI	AR	R	P-31	JN	JI	JL-SI	P	O	CT-DI	ĒC
	day	nit	d&n	day	nit	dan	day	nit	d&n	day	nit	atr	day	nit	dtn
108 MHz	9	8	в	8	e	8	0	8	8	8	1	8	9	0	8
1 GHz	6	3	4	1	1	1	8	4	6	12	6	9	2	1	1
3 GHz	7	3	5	2	1	1	9	5	7	14	7	18	2	1	1
6 GHz	13	8	11	3	i	2	14	8	11	27	17	22	9	5	?
10 GHz	37	38	34	19	15	17	31	22	26	57	48	52	43	35	39
29 GHz	68	53	57	46	48	43	50	42	46	75	69	72	69	62	65

(*) INDICATES INSUFFICIENT DATA

SURFACE BASED BUCT SUMMARY:

PARAMETER	Y	EARL'	7	J	คัท-หเ	R R	Al	PR-JI	JΉ	- 31	JL-S	EP	0	CT-DI	EC
	day	nit	d&n	day	nit	dan	day	nit	d&n	day	ni*	d&n	day	nıt	dan
Percent occurrence	1	2	1	8	8	0	1	2	2	2	4	3	ð	8	8
AVG thickness Kft	i		.31	•		.30	l		. 25			.36	[.31
AVG trap freq GHz	Į.		1.4	ı		. 45	l		1.7	i		1.0	l		2.5
AVG Tur grd -N/Kft			136	}		167	1		135	_		136			105

ELEVATED DUCT SUMMARY:

PARAMETER	YI	EARL'	Y	3	N-MI	iR.	RI	-R-JI	JH	Ji	JL-\$1	P	ő	CT-DI	EC
	day	nit	dkn	day	mit	d&n	day	nit	d&n	day	การ	dàn	day	nit	dŁn
Percent occurrence	18	12	11	4	- 5	5	10	10	10	22	23	23	5	8	7
AVG top ht Kft	1		3.4	1		3.5			2.8	i		3.5	i		3.5
AVG thickness Kft			.29			.28			.28	l_	_	.39			و2 ،
AVG trap freq GHz			1.1			1.8	i		1.2			.56			. 74
AVG lyr grd -N/Kft			54			54	1		52	ļ		54	i		56
AVG lyr base Kft			3.2			3.3	1		2.6			3.5		_	3.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCURRENCE	Y	EARLY	7	J	AH-HI	R.	AI	PR-JI	JN	1	JL-SI	EP	0(T-DI	C
Ĺ		day	711	d&n	day	411	<u>J&n</u>	day	nit	d&.ı	day	nit	d&n	day	n:t	der
8 10	18 Feet	18	20	19	22	25	24	25	29	27	12	13	12	12	15	13
18 to	28 Feet	22	26	24	31	34	33	25	38	27	14	18	16	19	23	21
20 to	30 Feet	23	24	23	27	25	26	19	20	20	_19	22	21	26	27	25
30 to	40 Feet	16	16	16	12	12	12	12	10	11	18	20	19	23	21	22
40 to	50 Feet	8	6	7	3	2	2	5	3	4	13	12	12	12	9	16
59 to	60 Fest	4	3	. 4	_1	1	1	3	2	. 2	_ 8	6	7	_ 5	3	4
69 to	70 Fest	2	1	1	8	8	8	1	1	1	3	2	3	1	1	1
78 to	86 Feet	;	8	1	9	9	9	1	1	1	2	1	1	0	8	6
89 to	98 Feet	1	9	9	8	ย	8	1	9	1	_ :	_ 1	_1	3	0	9
98 to	108 Feet	6	8	8	Θ	8	8	1	0	1	ī	8	1	8	a	8
above	100 Feet	5	2	4	1	1	1	8	3	5	11	4	7	2	1	1
Hean h	eignt Feet	33	25	29	22	19	21	33	24	28	45	33	39	36	26	_28

PARAMETER	7ES	RLY		J.	H-H	1R	AF	R-J	JH	JU	IL-SE	P	00	7-71	EL
ł	day r	112	din	day	nit	dan	day	nit	din	day	กเเ	dan	day	nit	020
% occur EL&SB dcts			6			θ			8			1			Ö
% occur 2+ Et dets			1	ļ		0	į		e			3			1
AVG station N			323	ł		316			322			233	l		319
AVG station -H/Kft	ļ		13			12	ĺ		12			14	ı		12
AVG sfc usnd Kts	16	16	16	18	19	18	14	13	14	14	14	14	20	20	28

(*) INDICATES INSUFFICIENT DATA

HISTORICAL PROPAGATION CONDITIONS SUMMARY TREES REV 2.1 58 52 H 5 49 S

59 52 N 5 48 E Radiosonde source : 1415 188 Fee* Radiotoide station height: Surface obs source: MS215 35 00 H 5 00 E

ı	DEBSEW!	DCCOPSENCE	OF E	нным	LED '	SURF	HCE-	10-50	JRFH	E KI	WHK.	Fau	CUM	KHH	<u> </u>		
1	FRE	GUENLY	Y	ERRL	Ŧ	Ji	ari-M	R :	A	?R~J(in	Jt	JL-SE	P	U	CT-DE	EC
			day	nit	dŁn	day	r.it	d&n	day	nit	d&n	day	nit	d&n	day	nit	<u>dŧn</u>
ı	160	r.Hz	Τă	a	- 0	0	0	0	9	9	8	0	- 6	8	8	0	0
i	1	GHz	6	2	4	1	1	1	3	4	6	11	4	7	2	1	1
1	:	GHz	7	3	. 5	2	1	. 1	10	5	7	13	5	9	2	1_	1
	6	GHz	13	7	18	3	1	2	15	8	11	26	14	20	7	5	7
	10	GHz	37	29	33	19	15	17	32	21	26	56	16	51	43	35	39
	58	GH?	60	53	56	46	48	43	50	41	46	_75	68	72	69	62	65

SURFACE BASED DUCT SUMKARY:

Specified location:

PHRAMETER	YE	HRL	Y	J	RN-M	9R	A	5-J	אנ	J	UL-SI	EΡ	O	CT-DI	EC
<u> </u>	day	niţ	dan	day	nit	d&n	day	nit	d&n	day	nit	din	day	nit	dŁn
Percent occurrence	1		•	Ø	9	- 8	2	1	2	1	1	1	9	8	8
AVG thickness Kit	l		.17	I		.13	1		.22			.20	1		. 15
AYG trap freq GHz			2.6	1		1.5			1.8			3.4	i		3.7
AVG lyn grd - MVKft	1		173	L		124			90			276			200

E: FUGTER THICT CHREADY.

GENERAL METEOROLOGY SUMMARY:

PARAMETER	. Y	EULL.	Y	J	AN-M	AR	Al	アーチ	UN	J	JL-S	EP	0	CT-D	EC
	dzy	nit	d£n	day	nit	d&n	day	nit	den	day	nit	dŁn	day	nit	d&n
Percent occurrence	2	3	2	1	1	1	2	2	2	4	6	5	1	1	7
AVG top ht Kft	}		3.3	1		3.4	l		3.1	ł		2.6	l		4.2
AVG thistness Kft	1		. 35	i		.33			.43			.29	l		.65
AVG trap freg GHz			1.2			2.5			.81			.81			. 65
AVG lyr grd -N/Kft			63	Ì		55	l		65	l		56			78
AVG lyr base Kft	Ī		3.1	I		3.2	l		2.8	ļ		2.3	•		4.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERSENT OCCURRENCE	Y	EARL'	¥	3	AN-HI	3R	Ð	R-J	אט	31	JL-Si	EP :	- 01	CT-DE	EC
	day	nst	dan	day	nit	din	day	nit	děn	day	กาเ	din	day	nit	din
0 to 10 Feet	18	28	19	22	25	24	25	29	27	12	13	12	12	15	13
10 to 20 Feet	22	26	24	31	34	33	25	39	27	14	18	16	19	23	21
20 to 30 Feet	23	24	23	27	25	26	19	26	28	19	22	21	26	27	26
38 to 48 Feet	16	16	16	12	12	12	12	10	11	13	20	19	23	21	22
48 to 50 Feet	8	6	7	3	2	2	5	3	4	13	12	12	12	9	18
58 to 68 Feet	4	3	4	1	1	1	3	2	2	8	6	7	5	3	4
60 to 78 Feet	2	1	1	8	8	- 6	1	1	1	3	2	3	1	1	1
70 to 23 Feet	1	9	1	8	0	Ð	1	1	1	2	1	1	8	6	8
90 to 90 Feet	_1	0	9	9	0	_ 8	1	- 8	1	_ 1	1	1	8	Ð	Ð
90 to 100 Feet	8	9	8	0	9	9	1	- 8	1	1	8	1	0	0	0
above 188 Feet	5	2	4	1	:	1	8	3	5	11	4	7	2	1	1
Mean height Feet	33	25	29	22	19	21	33	24	28	45	33	39	38	26	28

PARAMETER YEARLY JAN-MAR APR-JUN JUL-SEP OCT-DEC day nit den day nit den day nit din day nit dan day hit din % occur EL&SB dcts Ð 8 0 ø % occur 2+ EL dcts 0 8 ø ø 8 314 321 330 316 AVG station h 320 12 AVG station -H/Kft 12 12 13 12 18 18 14 13 14 29 AVG sfc uind Kis 16 16 16 18

Specified location: 60 07 N 1 10 H (*) INDICATES INSUFFICIENT DATA Radiosonde source: 3905 60 07 N 1 10 H

Radiosonde station height: 269 Feet Surface obs source: MS217 65 00 N 5 00 H

PEPCENT INCUIRRENCE OF ENHANCED SUBFACE-TO-SUBFACE RADAR/ESH/COM RANGES:

PEPCENI OCCURRENCE	UF E	unnne	CED :	SUKE	nce-	10-21	UNCRI	LE KI	אחער	EST	LUD	KAR	<u> </u>		
FREQUENCY	Y	ERRL'	Υ	J	AN-M	RR	AI	IL-R	UN	3:	JL-SI	EP	01	CT-DE	C
	day	nit	d&n	day	nit	₫&n	day	nit	din	day	nit	dŁn	day	nit	dtn
100 MH2	1	6	1	В	. 6	- 8	1		1	1	i	1	0	9	8
1 GHz	5	4	4	3	3	3	6	4	5	8	6	7	3	2	3
3 GHz	<u>į</u> 7	. 5	- 6	۵ ا	4	4	8	5	7	11	. 8	- 9	4	3	_ 3_
6 GHz	18	7	8	6	- 5	5	111		10	15	11	13	7	5	- 6
10 GHz	26	21	24	25	19	22	24	18	21	29	25	27	27	22	24
20 GHz	51	46	49	58	49	54	45	42	44	45	44	45	54	59	52

SURFACE BASED DUCT SUMMARY:

PARAMETER YEARLY JAN-MAR APR-JUN JJL-SEP OCT-DEC

day nit dan day nit dan day nit dan day nit dan day nit dan

Percent occurrence 6 5 8 8 RVG thickness Kft .12 .17 .13 .14 .16 AVG trap freq GHz 2.7 3.3 3.8 2.4 2.1 AVG lyr grd -N/Kft 89 84 88 83 65

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Υ	J	ฅพ∽หั	AR.	AI	-R-J	UN	31	JL-SI	P	00	CT-DI	EC
	day	nit	d&n	day	nit	d£n	day	nit	d£n	day	nit	din	day	nit	din
Percent occurrence	5	6	5	3	S	3	4	- 6	5	18	18	10	3	4	4
AVG top ht Kft	l		3.0			2.8	i		2.7	İ		2.9			3.5
AVG thickness Kft	$L_{}$.25	l		.23	<u> </u>		.24			.26			.26
AVG trap freq GHz			1.2			1.2			1.3			1.2			1.3
AVG lyr grd -H/Kft			57			53	i		53	i		58			65
AVG lyr base Kft	L		2.8			2.6			2.5	L		2,7			3.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCURRE	1CE	YE	EARL'	7	J	H-HE	R.	Al	PR-JI	JH	J	JL-\$1	EP	00	CT-DE	C
l		1	day	nit	ನಹಿಗ	day	nit	dan	day	nit	dŁn	day	nit	d&r.	day	nit	den
Oto	10 Fee	. 7	25	24	24	16	16	16	28	28	28	33	32	33	29	22	21
18 to	20 Fee	١	27	32	36	27	36	32	30	34	32	24	27	26	28	30	29
20 10	30 Fee	:]	26	26	26	33	32	32	23	24	24	18	_19	_19	29	28	28
38 to	40 Fee		14	11	12	17	12	14	11	7	9	11	11	11	15	14	15
40 to	50 Fee	١ ١	3	3	3	3	2	2	2	3	2	4	4	4	4	3	4
50 to	68 Fee		1	1	1	. 1	0	1_	1_1	. 2	1	2	2	2	_ 2	1	2
60 to	70 Fee		1	6	0	8	8	8	1	9	8	1	1	1	1	8	8
78 to	88 Fee	۱ ا	8	9	9	8	3	0	1	1	1	0	8	8	8	Ð	8
86 to	90 Fee	:	Э	Ð	9	9		. 0	8	8	8	в	9	a	9	8	9
98 to	188 Fee		6	8	8	Ð	0	0	8	9	9	8	1	8	0	8	0
above	100 Fee	:	3	2	2	2	1	1	2	2	2	5	4	4	2	1	2
Hean he	right Fe	22	24	21	23	24	21	23	22	19	21	26	24	25	23	20	22

OFHERUT HETERNOFORT	20mme	•												
PARAMETER	YERRL	Y	J	าห-หล	R	AP	R-J(×	34	IL-SI	P	00	T-DI	EC
	day nit	din	day	nit	din	day	nıt	d&n	day	nit	dŧn	day	nit	din
4 occur EL&SB dcts		8	Ī		9	ì		0			. 0			9
% occur 2+ EL dcis	1	8	l		8	ŀ		8			8			0
AVG station N		329	Į		314			322			329			315
AVG station -N/Kft	i	14	į		13			14			15	i		13
AVG sic wind Kts	18 18	18	21	20	21	16	15	16	14	14	14	22	21	22

Specified location: Radiosonde source: 6011 Radiosonde station heigh

62 01 H 6 46 H 62 01 H 6 46 H (*) INDICATES INSUFFICIENT DATA

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Radiosande station height: 188 Feet Surface obs source: MS217 65 88 N 5 80 N

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQ	UENCY	Y	EBRL	Y	Ji	an-Hi	1R	AI	PR-J	JH	31	JL-SI	EP	01	CT-DE	EĈ
		day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	dan
108	MHZ	e	9	8	. 0	- 0	9	θ	8	. 0	9	6	8	Ð	9	
1	GHz	3	2	3	2	1	1	2	2	2	5	4	5	2	1	2
3	GHZ	3	2	3	2	1	2	3	2	2	6	5	6	3	1	2
6	GHz	6	4	- 5	3	2	3	5	4	5	18	8	9	5	3	- 4
10	GHz	23	18	28	23	15	19	18	14	16	25	22	24	25	20	23
28	GHz	48	44	46	57	47	52	41	39	40	42	42	42	53	49	5:

PARAMETER	YI	EARL	1	J	AH-H	AR	B	PR-J	JH	31	UL-S	EP	-00	CT-DI	EC
	day	nit	dån	day	nit	dån	day	nit	din	day	nit	dŁn	day	nit	dŧn
Percent occurrence	8	1	9	0	- 0	9	0	0	8	<u> </u>	1	1	0	1	1
AVG thickness Kfc	l		. 18	1		.16	t		. 38	l		.09			.89
AVG trap freq GHz			2.8	l		2.3	ŀ		1.0			3.6			4.1
AVG lyr grd -N/Kft			443	Į .		353	ł		784	l		285			429

ELEVATED DUCT SUMMARY:

PARAMETER	YERRLY	JAN-KAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit dan	day nit dan	day nit dan	day nit dan
Percent occurrence	3 4 3	1 2 2	3 4 4	5 7 6	1 3 2
AYG top ht Kit	4.2	4.5	3.3	4.3	4.5
AVG thickness Kft	.26	.24	.22	.29	.28
AVG trap freq GHz	1.4	1.5	1.8	1.8	1.2
AVG lyr grd -H/Kft	55	59	53	52	57
AVG lyr base Kft	3.9	4.4	3.1	4.8	4.3

EVAPORATION DUCT HISTOGRAM IN PERCEN: OCCURRENCE:

PERCENT	0CC1	UPRENCE	Y	EARL	<i>r</i> -	3	RN-M	R.	A	PR-J	HU	J1	UL-SI	EP	01	CT-DE	EC
			day	nit	dån	day	nit	din	day	ntt	ರ &೧	day	nit	din	day	nit	d&n
0 to	10	Feet	25	24	24	16	16	16	28	28	23	33	32	33	28	22	21
10 to	26	Feet	27	32	39	27	36	32	38	34	33	24	27	2€	28	38	29
20 to	38	Feet	26	_26	26	33	32	32	23	24	24	18	19	19	28	28	28
30 to	40	Fee:	14	11	12	17	12	14	11	7	9	11	11	11	15	14	15
48 10	58	Feet	3	3	3	3	2	2	2	3	2	4	4	4	4	3	4
_50 to	€9	Feez	1	1	1	1	8	1	_1	2	1	2	2	2	2	1	2
69 15	78	Feet	1	9	0	E	e	8	1	8	9	1	1	1	1	8	8
78 10	88	Feet	C	8	9	9	8	9	1	1	1	0	Ð	0	9	9	6
80 to	98	Fret	9	0		9	0	0	. 0	_ 8	9	8	8	8	9	9	9
98 tc	106	Feet	0	8	8	0	0	9	8	9	8	8	1	8	3	8	0
aboue	100	Feet	3	2	2	2	1	1	3	2	2	5	4	4	2	1	2
Rean he	e i gh	t Feet	24	21	23	24	21	23	22	19	21	26	24	25	23	20	22

GENERAL HETEOROLOGY SUNHARY:

PARAKETER	Y	EARL'	Y T	36	H-H	RR	AF	R-J	UH	Ji	IL-SI	ĘP	00	T-DI	EC
	day	nit	dûn	day	nit	ರಕಿಗ	day	nit	din	day	nit	den	day	nit	din
a occur EL&SB dcts			9			8			8			0			8
% occur 2+ EL dcts			8			8	İ		8			6	1		8
AYG station H			318			312	1		320	i		325	1		313
AVG station -N/Kft			13			12	i		13	1		13	l		12
AVG sic wind Kts	18	18	18	21	20	21	16	15	16	14	14	14	22	21	22

Specified location: 65 60 N 15 00 W (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 4018 63 55 N 22 36 W

Radiosonde station height: 171 Feet

Surface obs source: MS218 65 08 H 15 00 H

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	Y	EARL	Ÿ	Ji	N-KI	BR	Al	R-JU	JN	JI	JL-SE	P	00	CT-DE	EC
	day	nit	dŁn	day	nit	din	day	nit	d£n	day	nit	d&n	day	nit	den
180 MHz	1	0	8	8	9	0	1	0	8	1	1	1	8		- 8
1 GHz	5	3	4	1	1	1	7	4	5	16	4	7	1 3	2	2
3 GHz	7	4	5	1	2	1	9	5	7	14	5	10	4	. 3	3
6 GHz	10	6	8	4	3	4	12	7	10	19	10	15	6	3	6
10 GHz	29	23	26	24	18	21	1 30	26	28	34	24	29	28	23	26
28 GHz	51	45	48	52	41	47	51	53	52	50	41	45	52	46	49

SUPERCE BRSED DUCT SUMMARY:

	JOHN IL													
PARAMETER	YEARLY		Ji	AM-NA	R	Al	パーJし	JN .	J	JL-SE	EP	00	T-DE	C
	day nit (d&n	day	nit	din	day	nit	din	day	nit	din	day	nit	den
Percent occurrence	6 4	5	1	3	2	7	4	6	13	6	10	4	4	4
AVG thickness Kft		. 13			. 19			.12	ĺ		.18	į		.13
AYG trap freq GHz		2.9			3.6			2.6			2.1	l .		3.2
AVG lyr grd -H/Yft		126	<u></u>		175			83			144	L		103

FI CUSTED THAT SHEKADY.

PARAMETER	Y	EARL	Υ	J	AH-M	R.	AI	PR-JU	UN	J1	JL-SI	EP	91	CT-DI	EC
	day	nit	dån	day	nit	d&n	day	nit	d&n	day	nit	dŧn	day	nit	d&n
Percent occurrence	14	17	16	10	8	9	17	20	19	19	29	24	10	11	11
AYG top ht Kft			4.8			4.7	i		4.9			4.9	i		4.6
AVG thickness Kft			.26			25	l		.26			.28	ł		. 26
AVG trap freq GHz			.73			.72			.83			.70			. 65
RVG lyr grd -N/Kft	i		64	ĺ		66	l		65	l		63	l		64
AVG lyr base Kft	l		4.6	l		4.6	l		4.7	l		4.8	l		4.4

EVAPORATION BUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCU	RRENCE	Ϋ́E	SEL	i	J	H-H	12	តវ	F-31	;H:	J	JL-SE	P	00	CT-DE	C
		day	nit	dtn	day	nit	din	day	nit	dŧn	day	nit	ašn.	وبعك	nit	den
8 to 18	Feet	26	29	28	19	32	25	25	22	24	34	36	35	26	28	27
10 to 20	Feet	25	27	2€	30	28	29	26	26	26	22	26	24	24	28	26
20 to 30	Feet	23	23	23	28	24	26	22	28	25	17	17	17	24	23	24
38 to 48	Feet	14	13	14	17	11	14	14	16	15	11	11	11	16	14	15
40 to 58	Feet	5	4	4	3	4	3	5	4	4	5	4	4	6	4	5
50 to 60	Feet	2	1	2	2	1	1	2	8	1	3	3	3	1	1	1
60 to 70	Feet	1	1	1	1	8	8	1	1	1	1	1	<u>1</u>	1	6	8
78 to S8	Feet	8	9	9	1	8	8	9	8	8	1	1	1	9	8	8
88 to 90	Feet	8	. 0	8	8	_0	0	8	8	8	_1	9	9	8	8	θ
98 to 188	Feel	9	8	9	0	0	0	8	9	8	8	- 6	ð	Ø	8	0
above 100	Feet	3	1	2	8	8	8	5	3	4	6	2	4	1	1	1
Hean height	Feet	24	28	22	21	18	28	27	24	25	28	28	24	22	28	21

PARAMETER	YEARLY	JAN-HAR	APR-JUH	JUL-SEP	OCT-DEC
	day nit dan	day nit din	day nit din	day nit din	day nit den
% occur EL&SE dcts	1	8	2	2	1
% occur 2+ EL dets	2	1	1	4	1
RVG station N	315	309	317	322	318
RVG station -N/Kft	12	11	12	13	11
AVG sfc uind Kts	19 19 19	24 23 24	17 17 17	14 14 14	21 21 21

Specified location: 61 48 H 29 12 H
Radiosonde station height: 39 Feet
Surface obs source: HS219 65 00 N 25 00 H

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/FSM/COM RANGES

PERCENT 0	CCURRENCE	OF EI	инни	CED 3	SURFI	HCE-	10-50	JKFH	CE KI	HUHK.	/ESM	/ CUM	KHN	PF2:		
FREQ	UENCY	YI	EARL'	Y	31	H-H	R	Al	PR-JI	UH	J	UL-SI	P	0	CT-DE	EC
!		day	nit	dŁn	day	nit	dŁn	day	nit	d&n	day	nit	d&n	day	nit	din
100	KHZ	Э	- 6	8	0	0	0	0	8	Ø	0	0	0	8	8	8
1	GHz	3	48	26	1	2	2	5	185	95	6	5	5	1	1	1
3	GHZ	5	72	38	_2	3	3	7	275	141	7	6	7	2	2	. 2
ō	GHz	7	107	57	4	6	- 5	16	411	211	11	9	10	4	3	4
10	GHz	27	144	86	26	18	22	24	511	267	24	27	25] 35	21	28
1 28	GHz	53	179	116	59	41	50	45	57€	310	41	49	45	69	52	69

(+) INDICATES INSUFFICIENT DATA

SURFACE BASED DUCT SUMMARY: JAN-MAR PARAMETER YEARLY APR-JUN JUL-SEP OCT-DEC day nit din day nit dan day nit den day nit den day nit din Percent occurrence 3 3 2 .17 AYG thickness Kft .20 .18 .18 .28 2.7 2.0 1. i 2.6 AVG trap freg GHz 2.1 AVG lyr grd -N/Kft 97 77 194 69 138

ELEVATED DUCT SUMMARY:

PARAMETER	ž	ARL'	Y	Ji	RH-MI	RR _	AF	P-J	JH	JI	JL-SI	EP	G	CT-DI	EC
	day	nit	d&n	day	nıt	d&n	day	nit	dan	day	nit	din	day	nit	dŁn
Percent occurrence	3	2	2	1	8	1	5	1	3	4	4	4	1	2	2
AVG top ht Kft	Ì		3.8	1		3.9	l		3.4	ı		3.8	i		4.1
AYG thickness Kft			.27	i		.25			.22	<u> </u>		.27	L		.34
AVG trap freq GHz			1.5			2.6			2.8			1.3			. 55
AVG lyr grd -N/Kft			65	1		76	l		68	l		64	•		59
AVG lyr base Kft	ł		3.6	1		3.8	{		3.2			3.6	ı		3.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURR	RENCE	YE	ARLY	1	Jí	an-mi	R	RF	R-J	JH	JI	UL-SI	EP	00	T-DE	EC
		day	nit	din	day	nit	d&n	day	nit	din	day	nit	dan	day	nit	din
6 to 19 F	eet	23	31	27	16	25	21	26	68	43	35	23	29	13	17	15
10 to 20 Fe	cet 🚦	25	4!	33	26	37	31	31	68	43	25	28	26	19	32	25
20 to 30 Fr	265	26	36	31	33	_24	28	21	67	44	17	23	26	34	31	_33
30 to 40 Fe	eet	16	23	19	17	10	14	111	54	32	10	13	11	26	15	28
48 to 50 Fe	eet	4	15	9	5	2	3	3	48	26	3	5	4	5	3	4
50 to 68 Fe	eet	2	13	7	_ 2	. 1	1	2	47	24	2	2	2	2	1	1
60 to 70 Fe	299	8	12	6	0	0	0	1 0	46	23	1	8	1	1	9	8
70 to 80 Fe	ees	8	12	6	0	1	9	1	45	23	1	1	1	9	9	8
80 to 90 Fe	cet	1	12	6	1	_ 8	_ e	_ 1	45	23	Ð	1	9	9	9	8
90 to 100 Fe	eet	0	12	- 6	0	8	6	1	45	23	0	1	1	8	8	Ð
above 188 Fe	eet	3	48	25	9	1	1	4	186	95	6	4	5	1	8	1
Mean height i	Feet	25	34	30	23	19	21	25	71	48	26	27	26	26	21	23

PAPAMETER	YE	ARLI	Y	J	ลห-หเ	AR	AF	アール	אנו	JI	JL-\$1	EP	00	:T-DE	€C
	day	nit	din	day	nit	dan	day	nit	din	day	nit	đin	day	กาเ	den
% occur EL&S\$ dcts	[8			8			0			0			. 0
% occur 2+ EL dets	ŀ		0	i		8	Į .		e			8	l		9
AVG station H	l		317	1		311			318			325	1		313
AVG station -N/Kft	l		12			12			12			13			12
AVG afe wind Kts	19	18	19	24	_ 22	23	17	16	16	14	14	14	22	21	22

Specified location: 63 58 H 22 36 H (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 4818 63 58 N 22 36 W Radiosonde station height: 171 Feet

Surface obs source: MS219 65 00 N 25 00 H

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/FSM/COM RANGES:

- ENGLIST GOODWINESTOR	<u> </u>	******				• • •	VIII	<u> </u>					<u> </u>		
FREQUENCY	Y	EARL'	Υ	J	H-HE	RR	☐ A1	PR-JI	JH	1	JL-SI	P	ĕ	CT-DE	C
	day	nit	d&n	day	nit	d <u>&</u> n	day	nit	d&n	day	nit	den	day	n11	d&n
160 MHz	1	8	9	8	9	9	1	6	8	1	1	1	0	9	8
1 GHz	5	48	27	1	2	1	6	185	95	16	6	8	2	2	2
3 GHz	7	71	39	1	3	2	9	273	141	13	8	11	3	2	3
6 GHz	10	197	58	3	5	4	12	487	218	18	12	15	6	3	5
10 GHz	30	143	86	25	17	21	26	505	265	38	29	36	36	22	29
20 GHz	55	178	117	58	48	49	46	568	307	47	51	49	78	52	61

SUPPORE BASER BUCT SUMMARY:

JOKPACE BASED DUCT	OHANKI.				
PARAMETER	YEARLY	JRN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit den	day nit din	day nit dan	day nit dan
Fercent occurrence	6 4 5	1 3 2	7 4 6	13 6 10	4 4 4
AVG thickness Kft	.13	.10	.12	.18	.13
RVG trap freq GHz	2.9	3.6	2.6	2.1	3.2
AVG lyr grd -N/Kft	126	175	83	144	103

ELEVATED DUCT SUMMARY:

PARAHETER	Υŧ	EARL	Y	J	AH-M	R	RI	PR-J	NU	JI	JL-Si	EP	85	CT-DI	EC
	day	nıt	din	day	nit	dŧn	day	nit	dŧn	day	nit	d£n	day	nit	dån
Percent occurrence	14	17	16	10	8	9	17	20	19	19	29	24	10	11	11
AVG top ht Kft	l		4.8	l		4.7	ļ		4.9	1		4.9	1		4.6
RVG thickness Kft	i		.26	l		.25	Į		.26	i		.28	l		.26
AVG trap freq GHz			.73			.72			.83			.76			. 65
RVG lyn grd -N/Kft	l		64	1		66	1		65	1		63	i		64
AVG lyr base Kft	l		4.6	1		4.6	l		4.7	1		4.8	ŀ		4.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

EVAP UKIN	1011	DOC! HIS	,,,,,,,,	(1))1	14 F	RUE	11 0	<u>.coki</u>	(- 11 -	- 4					_		
PERCENT	OCC	URRENCE	Y	EARLY	7	31	AM-ME	R.	អា	PR-31	JH	JI	UL-SI	EP	00	T-DE	EC
			day	nit	dan	day	nit	din	day	nit	din	day	กาเ	d&n	day	nit	dan
0 to	10	Feet	23	31	27	16	25	21	26	68	43	35	53	29	13	17	15
10 to	28	Feet	25	41	33	26	37	31	31	68	49	25	28	26	19	32	25
20 10	38	Feet	26	36	31	33	24	28	21	67	44	17	23	20	34	31	33
30 to	48	Feet	16	23	19	17	10	14	11	54	32	16	13	11	26	15	20
46 to	59	Feet	4	15	9.	5	2	3	3	48	26	3	5	4	5	3	4
58 to	60	Feet	2	13	7	2	1	1	2	47	24	2	2	2	2	_1	1
68 to	78	Feet	0	12	6	0	8	0	8	46	23	1		1	1	8	9
78 to	88	Feet	9	12	6	9	1	8	1	45	23	1	1	1	í e	9	9
20 to	90	Feet	1	12	6	1	8	8	1	45	23	. 0	1	G	9	_ &	8
90 to	100	Feet	6	12	6	0	8	6	1	45	23	8	1	1	8	6	9
above	189	Feet	3	48	25	8	1	1	4	186	95	6	4	5	1	9	1
Hean h	eigh	t Feet	25	34	38	23	19	21	25	71	48	26	27	26	26	21	23

PARAMETER	YERRLY	r	JF	<u> </u>	R	AP	R-JL	Ж	3	JL-58	P	00	T-DI	EC
L	day nit	din	day	nit	dŧn	day	nit	din	day	nit	dŁn	day	nit	d&n
% occur ELASB dcts		1			0			2			2			1
2 occur 2+ EL dcss	İ	2	l		1			1			4			1
AVG station H		315	ļ		389	i		317	ì		322	İ		310
AVG station -N/Kft		12	ĺ		11	ı		12	ĺ		13	İ		11
AVG sfc uind Kts	19 18	19	24	22	23	17	16	16	14	14	14	22	21	22

37 37 H

65 36 N 37 37 H

(*) INDICATES INSUFFICIENT DATA

Surface obs source: MS220 65 00 N 35 00 H

65 36 N

164 Feet

PERCENT OCCURRENCE	DF EI	инни	CED :	SURFI	HCE-	10-SI	<u>JRFH(</u>	<u> </u>	4DHK.	<u> ESM</u>	<u>/</u>	KHN	<u> </u>		
FREQUENCY	Y	EARL	γ	Ji	AN-HE	3R	AF	R-J	JH	J	JL-SI	EP	00	CT-DE	EC
	day	nit	d∂n	day	nit	dŁn	day	nit	dŁn	day	กระ	dŁn	day	nit	dan
100 MHz	8	0	Ø	Θ	0	9	8	9	- 0	0	e		0	8	0
1 GHz	3	2	2	1	1	1	4	2	3	6	3	4	2	1	1
3 GHz	4	2	3	1	_1_	1	4	2	3	7	_ 3	5	_ 2	1	1
6 GHz	6	4	5	2	1	2	7	5	6	11	- 5	8	5	3	4
10 GHz	23	21	22	17	17	17	19	16	17	28	23	26	29	30	30
20 GHz	49	51	59	50	58	50	41	43	42	47	49	48	59	54	61

SURFACE BASED DUCT SUMMARY: DODOMETED VEADI V

IREPS REV 2.1

Specified location:

Radiosonde source : 4360 Radiosonde station height:

PARAMETER	Y	EARL	Y	J	RH-M	AR	Al	PR-JI	UN	J	UL-S	EP	0	CT-D	EC
	day	nit	dån	day	กาเ	dtn	day	nit	dån	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	6	- 6	1	1	1	1	2	2	1	1	1
AVG thickness Kft			.17	i .		. 13	1		. 15			.21	i		.28
AVG trap freg GHz	1		3.3	i		3.8	j		4.3	1		2.0	i		3.0
AVG lyr and -N/Kft	Ì		184	i		94	i		131	l	_	77	1		113

PHRAMETER	Y	EARL	Y	J	AH-H	PR	A	PR-JI	UN	J	UL-S	EP	0	CT-D	EC
	day	nit	d&n	day	nit	dkn	day	nit	din	day	nit	din	day	nit	dŧn
Percent occurrence	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1
AVG top hi Kfi	l		3.4	i		3.6	1		3.2	ĺ		2.5	1		4.1
AVG thickness Kft			.23			-11	<u> </u>		. 27	l		.33			.19
AVG trap freq GHz			2. î			4.2			2.1			.58	П		1.6
AVG lyr grd -N/Kft	1		121	}		48	l		277			95	ĺ		63
AVG lur base Kft	l		3.3	i		3.5	Ī		3.2	ļ		2.4	[4.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCURRENCE	Y!	ERRL	r	J:	Ali-M	AR	l Bi	PR-JI	UN	JI	リレーショ	EP	01	CT-DE	EC .
		day	nit	dån	day	nit	_d&n	day	nit	din	day	nit	d&n	day	nit	dan
0 to	i0 Feet	24	22	23	28	20	20	29	27	28	29	25	27	17	16	17
10 to	20 Feet	27	27	27	30	38	38	31	39	31	24	27	26	24	20	22
20 10	38 Feet	26	39	_28	33	34	33	23	28	25	19	26	22	30	33	32
30 to	40 Feet	14	15	14	13	14	13	9	9	9	13	16	15	20	22	21
40 to	50 Fazt	4	3	3	3	1	2	3	2	2	5	3	4	5	6	5
58_ t o_	6θ Feet	1	1	1	8	. 0	ее	1	. 1	. 1	2	<u> </u>	:	2	2	2
60 to	70 Feet	1	9	6	0	9	8	1	1	1	1	0	1	Ð	. 8	8
78 to	98 Feet	9	8	5	8	8	9	8	1	9	1	8	8	8	6	8
80 to	90 Feet	. 0	- 8	0	8		. 8	8	8	8	1	. 0	0	<u> </u>	e	9
90 to	108 Feet	8	9	0	0	8	ð	e	Ø	0	1	- 0	- 0	e	- 8	Ø
abov€	109 Feet	3	1	2	1	1	1	3	2	2	5	2	4	1	1	1
Hean he	ight Feet	23	21	22	21	20	20	22	20	21	27	22	24	24	24	24

GENEPAL HETEOPOLOGY SUKKARY:

EP	OCT-DEC
den	day nit din
0	8
8	9
314	398
13	12
14	21 21 21
	dtn 8 8 314 13

(+) INDICATES INSUFFICIENT DATA

IREPS REV 2.1

61 18 N 45 25 N

Specified location: 61 18 N 45 25 H Radiosonde source : 4278

Radiosonde station height: 13 Feet Surface obs source: MS228 65 00 H 35 06 H

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RABAR/ESH/COM RANGES:

FREQUENCY	Y	EARL	Y	Ji	N-H	R	R	PR-J	ÛH	J	UL-SI	EP	Ö	CT-DE	C
i	day	nit	d\$n	day	nit	din	day	nit	dar.	day	nit	dŁn	day	nit	den
100 HHz	0	Ð	8	8	8	0	0	8	8	0	0	9	6	9	- 8
1 GHz	3	2	2	1	1	1	3	2	2	5	3	4	2	1	í
3 GHz	_ 3	_ 2	3	2	1	2	4	2	3	7	3	_ 5	_2	1	1
6 GHz	6	4	5	2	2	2	6	4	5	19	5	7	5	3	4
10 GHz .	23	22	22	18	17	17	18	15	17	28	23	26	29	38	30
20 GHz	49	31	58	58	51	51	41	43	42	47	49	43	59	64	61

SURFACE BASED BUCT SUMMARY:

PARAMETER	71	ERRL	Y	J	RH-M	AR	A	R~JI	JN	31	JL-SI	EP	01	CT-DI	EC
	day	nit	din	day	nit	din	day	nit	din	day	nit	dŧn	day	nit	dan
Percent occurrence	1	1	1	1	1	1	θ	0	0	8	2	1	1	1	1
AVG thickness Kft	l		.16	ł		. 15	}		-19	l		.14	i		. 14
AVG trap freg GHz	ļ		2.8	l		1.6	l		1.1			2.2	!		3.0
AVG lyr grd -N/Kft	i		116	i		23	l		85			140	<u> </u>		155

ELEVATED DUCT SUMMARY:

PARAMETER	YEA	RLY	3	RH-KF	ìR	AI	PR-JI	JH	31	JL-SI	EP	õ	CT-DI	EC
	day n	it den	day	nit	dån	day	nit	dłn	day	nit	din	day	nit	atn
Percent occurrence	1	1 1	1	0	1	9		1	ŧ	1	1	1	ı	1
AYG top ht Kft	i	3.7			3.6	l		4.8			3.8			2.5
AVG thickness Kft		. 19	l		.22	L		.21	<u>!</u>		.19	<u> </u>		. 13
RVG trap freq GHz		2.8			2.6			2.3			2.7			4.3
AVG lyr grd -N/Kft	i	75	l		69	ŀ		118	i		63	l		58
AVG lyr base Kft		3.6			3.5			4.7	j		3.7	l		2.4

EVAPORATION DUCT HIS/OGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCU	IRRENCE	71	EARLY	1	J	BN-M	R	Af	-R-11	Ħ	J	JL-SE	P	00	T-DE	C
			day	nit	dŧn	day	nit	dan	day	nit	dŁn	day	nit	dŁn	day	nit	den
8 to	10	Fget	24	22	23	29	28	20	29	27	28	29	25	27	17	16	17
10 to	20	Feet	27	27	27	39	38	39	31	38	31	24	27	26	24	28	22
28 to	38	Feet	2€	38	28	33	34	33	23	28	25	19	26	22	38	33	32
30 to	48	Feet	14	15	14	13	14	13	9	9	9	13	16	15	26	22	21
48 to	58	Feet	4	3	3	3	1	2	3	2	2	5	3	4	5	6	5
58 to	69	Feet	3	1	1	0	- 8	9	3	1	1	_ 2	1	ì	_2	2	2
60 to	78	Feet	1	8	0	8	8	8	1		ī	1	3	1	9	0	- 6
78 to	88	Feet	9	8	0	8	0	8	8	1	9	1	0	8	8	8	9
88 to	98	Feet	8	9	0	9	. 0	. 0	8	8	9	1	6	9	8	6	
98 to	100	Feet	8	0	8	8	0	0	8	8	8	1	8	8	8	Ø	0
above	188	Feet	3	1	2	1	1	1	3	2	2	5	2	4	1	1	1
Hean h	eight	Feet	23	21	22	21	28	28	22	28	21	27	22	24	24	24	24

CENEDRI RETERDOLOCY SUMMADY.

GEL-FULL HELFOLFFOR	30												_	
PARAMETER	YEARL	Υ	31	RN-KI	R.	RP	R-J	JH.	JU	L-SE	P	00	T-DE	EC
L	day nit	din	day	nit	dîn.	day	nit	dln	day	nit	d&n	day	nit	den
% occur ELLSE dets		8			0			0			8			6
% occur 2+ EL dcts	l	8	1		8			8			8	l		8
AVG station H	l	312	ļ		387			312			318			318
AVG station -N/Kf%		12	Į		12			12			12			12
AVG sfc uind Kts	18 18	18	21	22	22	16	16	16	13	15	14	21	21	21

Control Control and a section of the Control of the Control of the Control of Control of the Con

HISTORICAL PROPAGATION CONDITIONS SUMMARY **IREPS REV 2.1**

Specified location: 68 42 N 52 45 H (*) INDICATES INSUFFICIENT DATA Radiosonde source : 4220 68 42 N 52 45 H 89 Feet Radiosonde station height:

Surface obs source: MS228 65 00 H 35 00 H

PEPCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

$ \Box $	FRE	DUENCY	Y	EARL'	Y	31	ลห-หเ	R	- 51	?R-JI	3N	- 31	JL-SI	EP	0	CT-DI	EC
L			day	nit	d&n	day	nit	din	day	nit	dŧn	day	nit	d&n	day	nit	<u>d</u> &n
	100	MHZ	Θ	B	0	8	6	8	9	8	Θ	9	- 0	- 8	*	+	¥
1	1	GHz	3	2	3	1	1	1	3	2	3	6	3	4	*	*	*
L	3	GHz	4	2	3_	1	1	1	4	2	3	7	3	5	*	+	-
	€	GHz	6	4	- 5	2		2	6	5	6	11	4	7	*	*	#
Ì	10	GHz	21	19	20	17	17	17	18	16	17	28	23	26	*	•	+
<u></u>	29	GHz	46	48	47	50	51	59	41	43	42	47	49	48	<u> </u>	¥	*

SURFACE BASED DUCT SUKMARY:

PORAMETER	Y	PRL	Y	31	ลห-หเ	HR.	R	R-J	JH .	3:	UL-SI	EP	01	CT-DE	EC
	day	nit	dan	day	nit.	dkn	day	nit	d\$n	day	nit	d£n	day	nit	dŁn
Percent occurrence	9	1	1	8	1	1	Ø	1	1	1	1	1	8	9	9
AVG trickness Kft			.17	1		. 17	Ì		.13			.21	l		*
AVG trap freq GHz			1.5	1		1.8	ļ		1.1	i		1.7	i		
AVG lyr grd -N/Kft	ĺ.		246			218	ł		367	ļ		219	ì		*

ELEVATED BUCT SUMMARY:

PARAMETER	YEARL	Y	J1	AH-H	AR.	A	PR-J	UH	5	UL-SI	EP	0	CT-D	EC
	day nit	d&n	day	nit	d&n	day	nit	d£n	day	nit	dŧn	day	nit	dan
Percent occurrence	1 1	1	8	6	В	0	1	1	2	1	2	1	1	1
AVG top ht Kft		2.4			*	l		2.5			2.5	ŀ		2.2
RVG *hickness Rft		.22			*	l		.28			.23	l		.23
HVG trap freq GHz		1.6			+	1		1.5			1.9			1.3
AVG lyr grd -N/Kft	ļ	69	l		*	•		88	į .		69			68
AVG iyr base Kft		2.3	i		4	l		2.4	1		2.3	i		2.0

E,	VAPO	RAT	10H	DUCT HIS	STOCK	RAN	IN P	ERCE	HT D	CCURI	RENCE	E:							
П	PERC	ENT	000	URRENCE	YE	EARL	Y	1	คห-ห	AR	A:	R-J	UH	10	UL-S	EP	0	CT-D!	EC
L					day	การ	d&n	day	กาเ	d&n	day	nit	dån	day	กาเ	d&n	day	nit	dŁn
Г	8	to	10	Feet	24	22	23	28	20	29	29	27	28	29	25	27	17	16	17
1	16	to	20	Feet	27	27	27	39	36	38	31	38	31	24	27	26	24	28	22
L	20	10	36	Fee:	26	38	_28	33	34	_33	23	_ 28	2 <u>5</u>	19	26	22	39	33	32
Г	38	to	40	Feet	14	15	14	13	14	13	9	9	9	13	16	15	20	22	21
1	46	to	50	Feel	4	3	3	3	1	2	3	2	2	5	3	4	5	6	5
L	59	10	69	Feet	1	1	1	9	8	- 0	1	. 1	1	2	1	1	2	2	2
Г	60	to	79	Feet	1	6	8	0	- 0	0	1	1	1	1	9	1	8	8	8
1	78	10	80	Feet	8	G	9	8	6	9	9	1	8	1	8	8	0	9	0
I_	89	to	98	Feet	8	e		9	8	. 0	0	8	8	1	6	0	9	8	9
Γ	90	t o	100	Feet	8	0	8	9	8	8	0	8	8	1	8	8	8	0	8
Į	abe	ove	100	Feet	3	1	2	1	1	1	3	2	2	5	2	4	1	1	1
L	Hear	n h	e i qi	nt Feet	23	21	22	21	20	28	22	29	21	27	22	24	24	24	24

GENERAL	METEOROLOGY	SUMHARY:
PAF	RAMETER	YERRLY

PARAMETER	YE	RRL'	Y -	31	H-HA	RR	AF	R-JE	JH	31	ぴしつちき	P	01	CT-D	EC
	day	nı:	ರಭಿಗ	day	nit	din	Jay	nit	dån	day	nil	den	day	nit	din
% occur ELESB dcts			- 8	-		8			8			Ø			0
% occur 2+ EL dcts			9	1		8	l		8	i		8	l		8
HVG station N			313	l		318	l		313			317	l		318
RVG station -H/Kft			12	ĺ		12	1		12	l		13	1		12
AVG sfc wind Kts	18	18	18	21	22	22	16	16	16	13	15	14	21	2i	21

Specified location: 64 12 N 83 22 W (*) INDICATES INSUFFICIENT DATA

Radiosonde source: 72915 64 12 N 83 22 H Radiosonde station height: 210 Feet

Surface obs source: MS186 55 00 H 55 00 H

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/CON RANGES:

. LABORITE COCOMMONOL							****								
FREQUENCY	Y	EARL	Υ	J	AH-H	BR	A	PR-J	UN	31	JL-SI	Р	Gt	CT-DE	EC .
	day	nit	d&n	day	nit	d&n	day	nit	din	day	nit	dån	day	nit	din
100 MHz	0	8	6	1	Θ	9	8	Ð	8	0	0	0	9	6	8
1 GHz	4	1	3	3	1	2	4	3	3	6	2	4	3	1	2
3 GHz	5	2	3	4	1	2	5	3	4	7	2	5	4	1	2
6 GHz	7	3	5	5	1	3	7	4	6	10	4	7	6	2	4
10 GHz	13	8	11	9	5	7	13	7	10	19	11	:5	13	8	11
20 GHz	28	23	25	25	28	27	24	15	28	31	23	27	38	26	28

SURFACE BASED DUCT SUMMARY:

PARAMETER	YI	EARL	Y	J	AN-K	AR	RI	PR-J	JN	J	JL-SI	EP	O	CT-DI	EC
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d£n	day	nit	d&n
Percent occurrence	4	2	3	7	1	4	1	2	2	3	2	3	3	1	2
AVG thickness Kft	l		. 19	i		.21	1		.19			.18	Į.		.17
AVG trap freq GHz	į		2.7	ļ		2.3	[2.7	l		2.4	1		3.3
RVG lyr grd -H/Kft			113			121	İ		197			111	l		111

ELEVATED DUCT SUMMARY:

PARAMETER	YI	ERRL	Υ	J	RK-M	RR	AI	PR-J	UH	31	JL-SI	EP	0	CT-D!	EC
	day	nit	dån	day	nit	din	day	nit	dŁn	day	nit	d&n	day	nit	dan
Percent occurrence	4	4	4	1	1	1	4	2	3	9	18	18	3	3	3
AVG top ht Kft	1		2.8	ŀ		1.6			2.9	l		4.8	1		2.6
AVG thickness Kft	1		. 28	l		.13	l		.23	i		.28	l		. 16
AVG trap freq GHz			1.4			1.6			1.2			.66			2.2
RVG lyr grd -H/Kft			63	ł		74	ĺ		59	l		63	t		55
AVG lyr base Kft	ı		2.6	ļ		1.5	l		2.7	,		3.8	l		2.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCL	IRRENCE	71	ARL	ī	3	AN-MI	R.	Al	PR-JI	JH	71	JL-SE	P	C	T-DE	C
			day	nit	d&n	day	nit	din	day	nit	d&n	day	nit	din	day	nit	dan
8 to	10	Feet	44	44	44	48	32	36	51	56	54	48	52	56	37	38	37
18 to	20	Feet	31	33	32	40	46	48	25	30	27	23	25	24	35	37	36
28 to	39	Feet	24	_15	15	17	23	28	11	7	9	13	12	12	17	17	17
38 to	48	Feet	5	4	4	3	4	3	5	2	3	6	5	š	6	6	6
40 to	59	Feet	1	1	i	8	8	9	1	1	1	2	2	2	1	1	1
58 to	69	Feet	_ 1	8	1	_ 0	8	0	1.1.	0	1	_ 1	. 0	1	1	8	1_
50 to	70	Feet	0	0	8	6	9	8	6	0	9	1	1	1	0	0	8
70 to	88	Feet	0	0	0	9	9	9	l e	8	0	l ı	9	1	9	0	8
80 to	98	Feet	9	8	9	9	6	. 8	0	9	8	1	0		8	. 8	Ø
98 to	100	Feet	8	9	θ	8	9	8	1	8	0	ī	8	Ø	0	8	Ø
above	100	Feet	3	1	2	0	9	8	3	2	3	[₹	1	3	2	1	1
Hean h	right	Feet	17	14	16	13	15	14	18	13	15	21	14	18	17	15	16

PARAMETER	YEARL	Ÿ	JA	N-MF	R	AF	R-JU	IN	Ji	JL-SI	P	OC	T-DE	C
	day nit	dŁn	day	nit	Œn	day	nit	dan	day	nit	dŧn	day	nit	din
% occur ELOSB dets		0			8			8			1			8
% occur 2+ EL dcts		0	1		0			9			9	ĺ		8
EVG station N		316	1		321			313	ł		315	1		315
AVG station -N/Kft		13	l		14	i		13	ļ .		12	1		13
AVG sfc wind Kts	19 19	18	23	23	23	16	15	15	15	15	15	20	19	28

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

Specified location: 68 46 R 81 15 H

(*) INDICATES INSUFFICIENT DATA Radiosonde source: 74081 68 46 3 81 15 H

Radiosonde station height: 26 Feet

Surface obs source: MS220 65 80 N 35 00 H

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SUPERCE RAPAR/ESM/COM RANGES:

Г	FREQUENCY	Y	EARL	Υ	J	AK-M	RR	H	PR-JI	JN	Ji	JL-S!	P	00	CT-DE	EC
		day	nit	d&n	day	nit	d&n	day	nit	din	day	nit	dŁn	day	nit	d&n
Г	100 MHz	1 8	9	0	Ø	0	0	8	9	0	8	1	0	8	0	9
1	1 GHz	3	2	3	2	2	2	4	2	3	6	4	5	2	1	1
L	3 GHz	4	2	3	2	2	2	4	2	3	8	5	7	2	1	1
Г	6 GHz	7	4	5	3	3	3	7	5	5	12	7	9	5	3	4
1	10 GHz	24	22	23	19	18	18	19	16	17	29	25	27	29	30	39
L	20 GHz	<u>i 50</u>	52	51	51	52	51	41	43	42	48	50	49	59	63	61

SURFACE BASED DUCT SUMMARY:

PARAMETER	Ý	EARL'	Y	J	AN-M	AR	Al	R-J	JH	J	JL-SI	ΕP	91	CT-D	EC
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	3	3	3	1	1	i	2	4	3	1	ē	1
AVG thickness Kft	l		.23	ŀ		. 18	i		.21	l		.36	1		. 15
AVG trap freq GHz	l		3.1			3.2	į		3.7			.75	l		5.0
AVG lyr grd -H/Kft	L_		148	<u> </u>		164			92			94			278

FI EVATED DUCT SUMMERY:

PARAMETER	Y	ERFI.	Y		BH-M	AR	Ai	R-JI	JH	J;	JL-SI	EP	ő	CT-DI	C
	Say	nit	der	day	nit	dŁn	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	5	4	5	1	1	1	4	- 6	5	12	8	18	2	2	2
AVG top ht Kft	l		2.8	l		1.0			2.9	İ		3.9			3.4
AVG thickness Kft	L		.17	l		. 10			. 18	Į .		. 26	l		. 15
AVG trap freq GHz			2.5	Ī		4.6			2.7			1.1			1.6
AVG lyr grd -N/Kft			61	l		64			54	ļ .		58	1		68
AVE lyr base Kft	L		2.7	l		1.0	i		2.8		•	3.7	L		3.3

EUGPCPATION BUST HISTOSPHM IN PEOCENT ACCURPENCE.

FAHLOK	_						<u> </u>	4: U	<u> </u>	CHU								
PERCE	ΝT	OCCI	URRENCE	Y	ERRLY	7	31	AN-M	AR .	RI	R-JI	JN _	JI	UL-SI	EP	00	CT-DE	C
				day	nit	dir	day	nit	dtn	day	nıt	din	day	nit	d&n	day	nıt	d&n
9	to	18	Feet	24	22	23	20	20	26	29	27	28	29	25	27	17	16	17
18	to	26	Feet	27	27	27	36	30	30	31	30	31	24	27	26	24	29	22
20	ŧ o	38	Feet	26	30	28	33	34	33	23	_ 28	25	19	26	22	38	33	32
38	to	46	Feet	14	15	14	13	14	13	9	9	3	13	16	15	28	22	21
48	to	58	Feet	4	3	3	з	1	2	3	2	2	5	3	4	5	6	5
59	to	68	Feet	1	1_	1	9		0	1	1	1	2	1	1	2	2	2
60	to	70	Fest	1	e	9	8		0	1	1	1	1	8	1	0	9	0
73	to	98	Feet	0	8	9	9	9	8	9	1	G	1	0	9	0	8	Θ
80	to	98_	Feet	9	0	. 0	0		8	_ 0	0	0	_ 1_	0	. 9	_ 6	0	. 0
98	to	160	Feet	8	е	9	9	B	8	8	8	0	1	9	0	8	9	0
abo	ve	100	Feet	3	1	2	1	1	1	3	2	2	5	2	4	1	1	1
Mean	h	e i ghi	t Feet	23	21	27	21	20	20	22	20	21	27	22	24	24	24	24

YEAR	LY	į Ji	AN-M	AR	i AF	R-Jl	JH	J	JL-SI	EP	01	CT-DI	EC
day ni	t dan	day	nit	d&n	day	nit	dkn	day	nit	den	day	nit	din
	0			0			0			0			6
!	8	l		8	ţ		0	ł		0	l		9
l	319	ì		325	i		317			316	l		318
ļ	13	i .		14	ĺ		13	ł		12	ł		13
18 1	8 18	21	22	22	16	16	16	13	_15	14	21	21	21
	day ni	6 9 319 13	day nit dan day 0 0 0 319 13	day nit dan day nit 0 0 319 13	day nit dan day nit dan 0	day nit dan day nit day da	day nit dan day nit dan day nit 0 0 0 0 0 0 0 0 0	day nit dan day nit dan day nit dan 0	day nit dan day nit dan day nit day da	day nit dan day nit	day nit dan day nit day nit day nit day nit dan day nit dan day nit day	day nit den day	day nit dan day nit day nit

Specified location:

69 06 N 105 07 H (+) INDICATES INSUFFICIENT DATA

Radiosonge source: 72925 69 06 N 105 07 H Radiosonde station height: 89 Feet

Radiosonde station height: 89 Feet Surface obs source: MS193 55 88 N 125 88 H

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES

PERCENT ULLU	KKENLE UP E	וחדתה	LED :	DURFA	TLE-	10-51	JKFRI	JE KI	TUNK!	E304	LUR	KINN	<u> </u>		
FREQUEN	CY Y	EARL'	Y	J	ลห-หเ	AR.	A	R-JI	JH	J	JŁ-SI	EP	- 01	CT-DE	EC
	day	nit	d&n	day	nit	d&n	day	nit	din	day	nit	d&n	day	nit	din
108 MHz	6	9	9	8	9	6	0	0	8	8	0	8	8	9	0
1 GHz	į 11	7	9	7	4	5	15	10	12	16	9	13	5	3	4
3 GHz	i 13	8	10	8	5	7	18	12	15	_18	12	15	7	4	5
6 GHz	18	12	15	12	9	10	24	17	20	24	17	20	12	8	10
18 GHz	35	27	31	27	22	25	41	30	36	36	28	32	34	27	31
29 GHz	55	49	52	49	45	47	61	55	58	50	46	48	58	48	53

CHEERCE RASER BUCT SHMMARY.

SUXFRCE BROKE DUCT 3	חחטפ	NK 1 +													
PARAMETER	Y	EARL'	Y	J	AN-M	AR	A	PR-J	JH	J	UL-SI	EF	0	CT-DI	EC
	day	nit	din	day	្រាះ	₫ å n	day	nit	dŁn	day	nit	dan	day	nit	d&n
Percent occurrence	3	2	2	2	4	3	2	2	2	3	1	2	3	1	2
AVG thickness Kft			.21			.21	l		.21			.28	1		. 14
AVG trap freq GHz	ì		2.4	į .		2.8	l		2.3			1.6			2.9
RVG lyr grd -H/Kft	İ		118			96			119			140	L		128

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	J	M-NA	AR	i ei	PR-JI	UN	J	リレーSi	EΡ	51	CT-DI	EC
	day	nit	d&n	day	nit	d &n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	6	6	3	2	3	7	5	6	15	14	15	2	2	2
AYG top ht Kft			2.8	l		.51	1		4.3	l		3.5	l		3.1
AVG thickness Kft			.28	<u> </u>		.14	L.		.21	l		.28	<u> </u>		.18
AVG trap freq GHz			2.1			3.2	1		1.8			.95	1		3.3
RVG lyr grd -H/Kft	l		57	1		48	ļ		68	ł		57	(64
AVG lyr base Kft	l		2.7	l		.36	1		4.2			3.2	<u>. </u>		2.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	CCCURR	ENCE	YE	EARLY	7	J	R-MA	RR	AI	PR-JI	UN	31	JL-SI	EP	01	CT-DI	EC
l			day	nit	d&n	day	nis	dkn	day	nit	dkn	day	nit	dkn	day	nit	d&n
Ø to	10 Fe	er	25	26	25	24	23	23	28	19	28	36	33	34	22	27	25
18 to	20 Fe	et	21	27	24	28	33	31	20	- 27	23	15	22	18	21	25	23
28 10	30 Fe	et	20	22	21	22	23	23	20	_26	23	14	18	16	24	21	23
30 to	40 Fe	et	12	10	11	12	10	11	12	9	11	- 8	8	8	15	15	15
48 to	59 Fe	et	5	4	5	4	4	4	5	4	5	5	4	4	7	5	6
59 to	60 Fe	et	3	_ 2	2	2	1	2	3	. 1	2	2	2	2	3	2	3
69 to	70 Fe	et	1	1	1	1	1	1	2	1	1	1	2	2	1	1	1
78 to	88 Fe	et	1	1	1	8	1	1	1	2	2	2	1	2	1	1	1
88 to	90 Fe	et	1	1	1	1	- 8	1	1	1	_ 1	1	2	1	1		- 0
90 to	100 Fe	et	1	1	1	. 0	0	8	1	1	1	1	1	1	8	9	8
above	100 Fe	et	19	6	8	6	3	4	15	9	12	15	9	12	4	3	4
Mean he	ight F	eet	36	29	32	29	24	27	45	35	48	41	32	36	29	24	26

PARAMETER	Y	ARL	Y	31	IN-M	AR	A:	R-J	אנ	J	JL-SI	ΕP	O	T-DI	EC
	day	nit	din	day	nit	d&n	day	nit	din	day	nit	din	day	nit	dan
% occur EL&SB dcts			8			θ	<u> </u>		Ø			1			9
% occur 2+ EL dcts	l		9	1		8	l		0	•		1	i		9
AVG station N	l		321	1		328	1		317	1		318	i		319
RVG station -11/Kft			14	ĺ		15	Į.		13			12	ļ.		14
AVG sfc wind Kts	15	13	14	17	15	16	14	11	13	11	10	11	18	_16	17

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

-	C E 111 -	ICC OFFERE	<u>, </u>	******	<u> </u>	<u> </u>	102	0-3	DKF 111	<u> </u>	10111			E-11111			
Г	FRE	BUENCY	Y	EARL'	Υ	31	AH-MI	3R	RI	PR-JU	אנ	- 31	JL-Si	EF	-01	CT-DE	EC
I			day	nit	d&n	day	nit	den	day	nit	d&n	day	nit	dan	day	ni t	d&n
Γ	100	HHZ	0	8	0	8		9	8	9	- 6	0	- 6	- 6	9	0	0
1	1	GHZ	10	6	8	6	3	5	15	3	12	15	10	12	5	3	4
1	3	GH2	12	8	10	7	4	6	17	11	14	17	_12	15	6	3	4
	6	GHz	17	12	14	10	7	- 9	23	16	20	23	17	20	11	7	9
1	10	GHz	24	26	38	26	21	23	41	29	35	36	28	32	33	27	38
1	20	GHz	54	_ 48	51	48	44	_46	61	55	58	50	46	48	57	48	53
_											_					_	

in the field amounts of other both of the model of the other of the field of the fi

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SURFACE BASED DUCT SUMMARY:

Surface obs source: MS193 55 00 H 125 00 H

PARAHETER	Y	EARL	Y	J	M-NS	AK	AI	R-JI	JN	JI	JL-SI	EP	01	CT-DI	EC
}	day	nit	d&n	day	nıt	_d&n	day	nit	d&n	day	nit	d&n	day	nit	gån
Percent occurrence	1	1	1	0	$-\frac{1}{1}$	1	3	1	ı	1		1	1	G	1
AVG thickness Kft	1		.28			. 27	l		.17			.39	l		.28
AVG trap freq GHz	i		2.1			2.2	Ì		3.4	İ		.51	l		2.4
AVG byr grd -N/Kft		_	157	L		257			145			83			143

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL	Υ	Ji	AK-MI	98	A)	R-J	HL	31	JL-SI	EP	0	CT-Di	EC
	day	nit	d&n	day	n:t	din	day	nit	dka	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	1	1	0	1	1	4	1	3	1	0	1
AVG top ht Kft			3.6			1.7	l		6.3			3.9			2.4
AVG thickness Kft			.21			.26	[.23	i		.23	ł		.11
AVG trap freq GHz			1.9			.76			1.3	Π		1.7			3.7
AVG lyr grø -H/Kft	l		75	1		58	l		59	ļ		53			139
AVG lyr base Kft	ļ.		3.4	1		1.5	ì		6.1	1		3.7	l		2.4

EVAPOPATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT O	CCURRENCE	Y	ARLY	'	J1	AN-M	ar -	l Ai	/R-J!	JH	31	JL-Si	EP	00	CT-DE	C
		day	nit	dan	day	nit	d\$n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 1	6 Feet	25	26	25	24	23	23	20	19	20	36	33	34	22	27	25
10 to 2	0 Feet	21	27	24	28	33	31	29	27	23	15	22	18	21	25	23
28 to 3	0 Feet	28	_ 22	21	22	23	_ 23	20	26	23	_14	18	16	24	21	23
38 to 4	8 Feet	12	18	11	12	10	11	12	9	11	8	8	8	15	15	15
40 to 5	0 Fees	5	4	5	4	4	4	5	4	5	5	4	4	7	5	6
50 to 6	8 Feet	3	2	2	2	1	2	_3	1	2	_ 2	_2	2	3	_ 2	3
60 to 7	9 Feet	1	1	1	1	1	1	2	1	1	1	2	2	1	1	1
78 to 8	8 Feet	1	1	1	8	1	1	1	2	2	2	1	2	1	1	1
80 to 9	8 Feet	1 1	_ 1	1	1		1	1 1	1	1	_ 1	2	1	1	0	0
90 to 1	00 Feet	1	1	1	e	0	9	1	1	1	1	1	1	6	9	0
above 1	00 Feet	10	6	8	6	3	4	15	9	12	15	9	12	4	3	4
Mean her	ght Feet	36	29	32	29	24	27	45	35	40	41	32	36	29	24	26

GENERAL METEOPOLOGY SUMMARY: PARAMETER YEARLY JAN-HAR APR-JUN JUL-SEF OCT-DEC day nit den day nit dan day nit dan day nit dan day nit dan % occur EL&SB dcts 8 9 8 ß ð % occur 2+ EL dcts 0 ð ย Ð 9 AVG station N 319 326 315 319 316 AVG station -N/Kft 12 12 12 14 12 AVG sfc wind Kts 15 13 17 15 11 13 10 18 16 11 111

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

(*) INDICATES INSUFFICIENT DATA Specified location: 66 52 N 162 37 N Radiosonde source : 70133 66 52 N 162 37 H

Radiosonde station height: 16 Fact

Surface obs source: MS197 55 00 N 165 60 H

DEDIENT OCCUPATIONS OF ENGLISES CHAPACTITO-CUAPECT DARROLEGY/COM DENIES.

		OCCUPALITE	OF L	17101111		30711	·	0 3	ACT III		TUTTE .	23	CUI	K . 1194	•••		
Г	FRE	QUENCY	Y	EARL'	Υ	Jf	N-MF	R	AF	R-JL	JH.	ĴĹ	IL-SI	EP	0:	C ? - DE	EC
l			day	nit	d&n	day	r. t	d&n	day	nit	din	cay	nit	din	day	nit	dan
-	100	MHZ	1	3	1	0	e	9	2	0	1	3	- 1	2	6	- 0	0
1	1	GHz	7	3	5	2	1	1	10	3	6	15	7	11	2	1	1
L_	3	GHZ	16	4	7	3	1	_ 2	14	4	9	21	9	15	. 3	1	2
Г	6	GHZ	13	5	9	5	1	3	182	3	11	26	11	19	5	2	
	10	GH≥	23	13	18	12	5	9	24	ō	16	34	20	27	23	17	28
}	29	GHz	! 39	39	35	28	22	25	36	19	27	45	34	39	1 49	46	43

SUMPRICE BRIDED SOLL S	DOMINANT.													
PARAHETER	YEARLY			H-H			R-J		-	JL-SI	, ,		CT-D:	
İ	day nis	den	day	nit	dan	day	nit	dŁn	day	nit	den	day	niŧ	dŁn
Percent occurrence	13 \$	9	4	1	3	19	- 5	12	26	12	19	2	1	5
AYG thickness Kft		.19	ł		. 15	l		. 19	i		.27			-12
invG trap freq GHz)	2.3	1		3.8			2.8			1.0	l		2.4
AVG 100 grd -N/Kft		98	ـــا		149	L.,		76			63	L		103

PARAMETER	78	ARL	Υ	J	8N-X	nR	AI	PPJ	CN	3	JL-S	EP	01	CT-DI	EC
	GAY	nıt	r4.	day	n-t	d&n	day	nit	_aşn	day	nit	din	day	nit	džn
Percent occurrence	ž	4	3	0	1	1	3	- -	4	6	8	- -	8	1	i
AYG top ht Kft			2.9	i		2.5	l		2.8	ĺ		4.4	į		2.0
HVG thickness Fft			.23			.20	١	_	. 25			.25	i .	_	.21
AVG trap freq GHz			7.3			1.7			. 93	1		1-1			1.5
AVC lyr grd -H/Kfs			55	l		79			65	3		32	Ī		62
AVG lyr base Kft			2.8			2-4	Į		2-6	Ī		٠.2	l		1.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	1330	RRENCE	Y	7, [1	7	Ji	AH M	38	F:I	R-J	JH	Ji	JL-\$	EP-	00	T-D	EC
			day	212	din	Cay	nit	ಇಕ್ಕಿ	day	กระ	dần	day	nit	dån	Jay	nit	dtn
8 20	10	Feet	36	36	35	33	32	32	44	46	45	48	45	46	32	19	29
10 10	28	řeet	32	37	34	42	46	44	31	37	35	24	25	27	33	35	3:
28 to	30	Feet	17	18	17	16	16	_16	12	10	12	12	16	14	27	3&	28
30 to	48	Feat	8	7	ĩ	5	4	5	5	3	4	?	- 6	- 6	14	13	13
48 :0	50	Feet	2	1	2	1		3	1	1	1	2	2	2	4	2	3
50 to	60	Feet	_1	છ	1	•	9	1	1	0	1	1	3	1	1	1	
69 to	70	Feet	1	0	0	0	8	9	i	0	e	1	0	1	1	- 0	9
73 to	80	Feet	1	6	0	8	0	0	1	8	Ð	1	8	9	9	9	8
80 to	₽ 8	Feet	9	e	6	6		8	9	Ÿ	e	1	_0	_ 8	0	Θ	8_
90 10	103	Feet	8	0	8	8	6	Ø	0	ε	0	В	3	8	ð	6	- 8
above	106	Feet	2	i	1	1	9	1	IЗ	1	2	3	1	2	1	8	1
Hean he	ight	Feet	19	16	_18	17	15	16	18	14	16	18	15	17	22	20	21

GEYSPAL METEOROLOGY SURHAPY:

PARAMETER	YE	ÄRLY	7	3	AN-HA	AR .	8F	R-JI	JK	7	JL-Si	P.	00	T-DE	C
	day	<u> </u>	d&n	day	nit	d&n	day	กาเ	dan	day	nit	dtr	dav	nit	<u>dtn</u>
% occur EL&SB dcts			C			0			8			1			0
% occur 2+ SL dcts			0			Ð			6			1			8
AVG station P			316			316			314			321	ł		313
AVG station -N/Kft			13			13			13			13	ĺ		12
AVG sec used res	18	18	18	20	28	- 58	:6	:6	16	15	15	15	21	20	21

(*) INDICATES INSUFFICIENT DATA

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

Radiosonde source : 25399 66 10 H 169 49 H 23 Feet Padiosonde station height:

Surface obs source: M3197 55 80 N 165 00 W

DEDICAT OCCUPDENCE OF ENHANCER SUPERCE-IN-SUPERCE BRIDE FSM/COA RANGES:

66 10 H 169 49 H

	OCCURRENCE	D≻ F										***	KHI			
FRE	DUENCY	Y	ARL	Y	JF	311-MF	iR	AF	ペーノし	JH	31	JL-S	ĒΡ	01	CT-DE	EC
		day	nit	din	day	210	den	day	nit	din	day	nit	din	day	nit	d&n
100	MHZ	8	ē	8	0	0	0	e	9	Ð	8	1	1	0	Ø	9
1	GHz	3	2	2	1	1	1	4	1	3	4	4	4] 1	1	1
3	GHZ	3	2	3	2	:	_ 1	5	2	3	6	6	- 6	_ 2	1	1
6	GHz	6	3	4	3	1	2	7	2	5	8	7	8	4	2	3
19	SHZ	15	11	13	10	6	8	13	6	10	17	15	16	21	17	19
20	GH2	32	29	30	26	22	24	25	16	21	29	30	36	48	46	47
	100 1 3 6	FREQUENCY 100 HHz 1 GHz 3 GHz 6 GHz 10 GHz 20 GHz	day 100 MHz	100 MHz	day nit dan 100 MHz	day 5it d2n day 100 MHz	day nit d2n day nit	day nit dtn day nit dtn 100 MHz	day nit din day nit din day 100 MHz	day nit din day nit din day nit 100 HHz	day nit dan day nit dan day nit dan 100 MHz	day 5it d2n day nit d4n day nit d4n day 100 MHz	day nit din day nit day nit day nit y nit din day			

SUPFACE BASED DUCT SUMMARY:

Specified location:

PARAMETER		RL	_	J	AH-H	aR	A	PR-J	JH	31	JL-SI	EP	60	T-DI	EC
	day r	it	đận	day	nit	d&n	day	nit	#£n	day	nit	dan	day	nit	dan
Percent occurrence	2	2	2	0	i	1	3	1	2	3	6	5	0	1	:
AVG thickness Kft			. 18	i		- 69	ł		.21			.30	l		. 1C
AVG trap free GHz			2.6			2.9	ļ		2.6			.75	i		4.8
RVG lyr and -N/Kft			244	ì		231	1		109			163	l		475

FLEVOTED DUCT SUMMARY:

PARAMETER	Y	EARL	Y	J1	nn-Ma	ar .	A	R-JI	UK	Jŧ	ルーSi	EΡ	0	CT-D	EC
	day	nit	đền	day	nıt	d&s	day	nit	d&n	day	nit	d&n	day	nit	dŧn
Percent occurrence	1	1	1	8	8	6	1	2	2	2	2	2	1	- 8	1
RVG top h- Kft			9.4	l		29	l		3.2			3.6	İ		1.7
AVG thickness Kft			. 33	i		.17	i		.38			.61			.18
AVG trap freq GHz			1.6	1		1.3	1		.57			.28	l		4.5
AVG lyr grd -4/Kft	ļ.		93	Ì		65	į		113	1		132	l		64
AVS for base Kft			9.3	Į.		29	i		3.0	1		3.4	i		1.6

EVAPOPATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YI	EARL'	Ÿ	J	คห-หเ	R.	_ AI	R-J	HL	[J1	UL-SI	EP	6	CT-DE	C
	day	กาะ	den	day	nıt	dan	day	nit	_4೬೧	day	nit	den	day	nit	din
0 to 10 Feet	36	36	36	33	32	32	44	46	45	46	45	46	22	19	28
lú to 20 Feet	32	37	34	42	46	44	31	37	34	24	29	27	38	35	32
20 °0 30 Feet	17	18	17	16	15	16	12	10	11	12	16	14	27	36	28
30 to 40 Feet	8	7	7	5	4	5	5	3	4	7	6	6	14	13	13
40 to 50 Feet	2	1	2	1	1	1	1	1	1	2	2	2	4	2	3
50 to 60 Feet	1 1		_ 1	1	. 0	1	1	Θ	1	1	0	1	**	1	1
50 to 70 Feet	1	8	9	0	0	0	1	9	G	1	- 0	ì	1	- 8	0
70 to 80 Feet	1	ឆ្	8	8	9	0	1	9	9	1	9	8	8	8	Θ
80 to 98 Feet	9	. 0	- 0	8	. 0	0	<u> </u>	8		1	8	Ð	8	8	. 8
98 to 100 Feet	9	0	0	0	0	0	0	0	8	Ð	- 6	9	0	. 8	9
above 100 Feet	2	1	1	1	9	1	3	1	2	3	1	2	1	8	1
Hean heigh: Feet	19	16	18	17	13	16	18	14	15	18	15	17	22	20	21

GENERAL HETEOROLOGY SUNHAPY:

PARAMETER	YE	3RL1	7	31	1H-H	R R	a	PR-JI	N¥.	35)L-S	EΡ	00	CT-DI	EC
	day r	111	dsn	day	013	dĻn	day	nit	din	day	110	din	day	nıt	den
% occur EL&SB dcts			9			0			0			0			8
% occur 2+ EL dcts			8			0	1		8	1		Θ	ŀ		8
AVG station H			318	į .		328			315	•		328	l		315
AVG station -N/Kft	i		12	ł		13			12	1		12			12
AVG sfc wind Kts	13	18	18	20	20	20	16	16	16	15	15	15	21	20	2:
				-											

HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 64 39 N 165 25 H (*) INDICATES INSUFFICIENT DATA Radiosonde source: 70200 64 30 N 165 25 M

Radiosonde station height: 16 Feet Surface obs source: #8197 55 80 H 165 88 H

DEDCENT OCCUPATION OF CHARLES CHREACE_TO_CHREACE DARGO/ECH/COM BRUCCO

FE	KLEMI (P-CORKENCE	Ur E	UKHU	FD :	UKP	HLE-	10-30	JKFN	LE RI	אאעה	<u> </u>	LUN	KUM	.E3:		
	FRE	DUENCY	Y	EARL	Y	J	AN-M	AR	A	PR-J	UH	<u> </u>	JL-SI	EP	O	CT-DE	EC
L			day	nit	d&n	day	nit	d&n	day	nit	dŁn	day	nit	n3t	day	nis	địn
, -	188	NHZ	1 0	1	1	9	1	1	. 6	1	1	1	6	6	8	ī	1
ì	1	GHz	4	3	3	2	4	3	5	3	4	5	2	3	3	3	3
L	3	GHz	5	4	5	3	6	5	6	4	5	6	_ 2	4	4	5	4
Г	6	GHz	7	6	7	5	8	7	9	6	7	9	_ 3	6	6	6	6
ļ	10	GHZ	17	14	15	12	13	13	15	18	12	18	12	15	24	21	22
L	20	GHz	34	31	32	_58	29	28	27	28	_23	38	::7	29	58	_ 49	50

SUPERIE BASER BUCT SUMMARY

IREPS REV 2.1

PARAMETER	YE	ARL'	Y	J	คพ-พ	fiR .	AF	R-JI	JN	J	JL-S	ΕP	CI	CT-D	C
<u>i</u>	day	nit	dtn	day	nit	d£n	day	nit	dan	day	nit	dŁn	day	nıt	dŁn
Percent occurrence	*	7	6	3	11	7	5	6	6	5	2	4	4	- 8	6
AYG thickness Kft			.17			. 15	ł		. 18	ļ		.21	1		. 12
AVG trap freq GHz	1		2.1	1		2.3	i .		2.0			1.7	i		2.5
AVE lyr grd -N/Kft	L _		97			106	_		91	i i		115		_	76

PARAMETER	Y	EARL'	Y	JI	AN-A	R	AF	R-J:	JN	Jŧ	JL-SI	EP	00	CT-DI	EC
	day	nit	din	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	din
Percent occurrence	4	7	6	1	2	2	3	6	5	11	17	14	2	3	3
AVG top ht Kft	1		3.4			2.4	}		3.4	1		4.7			3.1
AVG thickness Kft	L _		.22	Ĺ.		.21			. 25			.26			.17
AVG trap freq GHz			1.4	Γ		1.5			.93			.86			2.2
AVG lyr grd -N/Kft	i		58	1		62	i		58	Į.		58			55
AVG lyr base Kft	i		3.2	1_		2.2	į .		3.2	ı		4.5	l		3.0

FURFARATION BURT HISTOGRAM IN DERCENT OFFICERENCE.

PERCENT OCCURRENC		ERRL			RH-MS			R-31	IN	Ji	JL-SE	P	00	T-DE	C
	_day	nit	din	day	nit	d&n	Say	nit	din	day	nit	dŁn	day	การ	din
0 to 10 Feet	36	36	36	33	32	32	44	46	45	48	45	46	22	19	20
10 to 20 feet	32	37	34	. 42	46	44	31	37	34	24	29	27	39	3₹	32
28 to 38 Feet	12	18	17	16	16	16	12	18	_11	12	16	14	27	38	28
38 to 49 Feet	8	7	7	5	4	5	5	3	4	7	6	6	14	13	13
40 to 50 Feet	2	1	2	1	1	1	1	ī	1	2	2	2	4	2	3
58 to 68 Feet	1 1	0	_ 1	_ 1	8	1	1_1_	8	1	1	9	1	1	_1_	1
60 to 78 Feet	1	0	0	8	ษ	9	1	8	0	1	6	1	1	0	8
70 to 80 Feet	1 1	9	0	9	8	8	1	8	0	1	8	Э	0	8	8
88 to 98 Feet	<u> 1 e</u>	9	0	L e	9	- 8	8	8	0	1		_ 0	Ð		8
98 to 188 Feet	0	0	0	0	8	8	e	•	8	e	8	Θ	0	8	9
above .88 Feet	2	1	1	1	8	:	3	1	2	3	1	2	1	8	1
Hean height Feet	1 19	16	18	17	15	16	81	14	. 15	18	15	17	22	28	2:

PARAMETER	YEI	ARES	,	36	เพ-พเ	1R	RP	R-JI	;H	Jŧ	IL-SE	Ρ	ŏ	T-DE	C
	day 1	111	dan	day	nit	d£n	day	nit	din	day	nit	din	day	nit	d&n
% occur EL&SB dcts			0			- 0			-0			9			9
% occur 2+ EL dcts			1			8			1	i		1	ŧ .		0
AVG station N			314	ł		313			313	İ		319	t		316
AVG station -H/Kft	i		12			12	l		12			12			11
AVG efc wind Kts	18	18	18	28	28	28	16	16	:6	15	15	_i5	21	20	21

Specified location: 64 25 N 173 13 W (*) INDICATES INSUFFICIENT DATA Radiosonde source: 25594 64 25 N 173 13 W

Radiosonde station height: 10 Feet

Surface obs source: MS198 55 90 N 175 00 H

PEPCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

Γ	FREQUENCY	Y	EARL	r	31	AH-MI	AR	AF	R-JU	JH	JU	JL-SI	EP	O	T-DE	EC
l.		day	nit	din	day	nit	dån	day	nit	d&n	day	nit	din	day	nit	dŁn
	100 MHz	9	c	0	+	•		8	Ð	8	8	0	8	8	0	8
1	1 GHz	3	2	2	•	•	*	4	3	3	4	2	3	2	1	1
	3 GHz	4	2	. 3	*	*	•	6	3	4	4	2	3	2	1	2
	6 GHz	6	3	5	+	•	*	8	4	6	7	4	5	4	2	3
1	10 GHz	18	13	15	*	*	*	15	9	12	14	9	11	23	19	21
l	20 GHz	34	38	32	*	*_	4	28	21	24	25	22	23	51	49	58

SE

7.

F.

SURFACE BASED DUCT SUMMARY:

PARAMETER	¥	EARL'	Y	JAN-MAR			A	R-J	UN	- 31	UL-S	EP	OCT-DEC		
	day	mi t	din	day	nit	din	day	nit	den	day	nit	dtn	day	nit	din
Percent occurrence	1	1	1	0	0	0	2	1	2	1	1	1	1	1	1
AVG thickness Kft	1		. 17	1		•	ł		.24			.11	l		. 14
AVG trap freq GHz	l		1.1	i					.74	l		1.1	1		1.5
AVG lyr grd -N/Kft	<u> </u>		179			•			137	<u> </u>		279	L		120

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL	Y	31	an-He	RF	a	PR-31	JH	31	IL-SI	EP	OCT-DEC			
	day	nit	dân	day	nit	d&n	day	nit	dtn	day	nit	d&n	day	nit	din	
Percent occurrence	1	1	1	0	9	6	1	<u>i</u>	1	2	2	2	1	1		
AVG top ht Kft	1		4.4	l		4.6			3.8	•		3.2	1		6.0	
AVG thickness Kft			.28	I		.23	_		.28	!		.35			.26	
AVG trap freq GHz			.98			.59			.72	$\overline{}$.53			1.7	
AVG lyr grd -H/Kft			78	ļ		80	•		72	•		80			81	
AVG lyr base Kft	į.		4.3	ļ		4.5	l		3.6	l		3.0	l		5.9	

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCUR	RENCE Y	YERRLY			JAN-HAR			PR-JI	JH	J:	UL-SI	EP	OCT-DEC		
	day	nit	d&n	day	nit	din	day	1111	dkn	day	nit	din	day	ní:	den
6 to 19 F	eet 35	34	35	29	29	29	41	42	41	49	47	48	21	19	28
10 to 20 F	eet 32	3€	34	38	43	41	33	38	35	27	3:	29	28	33	31
20 10 30 F	eet 18	_ 18	31	28	28	26	13	12	12	11	13	12	28	29	28
30 to 40 F	set 8	7	8	7	- 5	6	6	4	5	5	4	5	16	15	15
40 to 50 F	eet 2	2	2	2	1	1	2	1	1	2	1	2	4	3	3
50 to 60 F	eet 1	1	1	1	8	1	1	1	1	1	1	•	1	- 8	3
60 to 78 F	eet 1	Ď	อ	0	. 0	6	1	8	_ 8	1	- 6	1	1	- 6	8
78 to 80 F	eer e	8	8	Ð	e	8	1	8	6	9	0	ə	9	8	θ
88 to 98 F	eet 6	9	0	0		0	€	8	- 8	9	8	6	<u> 0</u>	છ	0
98 to 100 F	eet 8	9	9	9	9	6	1	9	0	9	6	_6	8	8	<u>ə</u>
above 100 F	eet 2	1	2	1	1	1	3	2	3	3	1	2	1	1	1
Hean height	Feet 19	17	18	19	16	18	19	16	17	17	:5	16	22	21	21

GENERAL HETEOROLGGY SUMMARY: PARAMETER YEARLY JAH-HAR OCT-DEC APR-JUN JUL-SEP day nit dan day nit dtn day nit dan day nit dan day nit dan % occur EL&SB dets 0 e 9 n ø % occur 2+ EL dcts 8 8 8 0 8 AVG station N 314 313 313 320 318 AVG station -N/Kft 11 12 11 12 11 AVG afc wind Kis 17 22

Specified location: 68 55 H 179 28 H (*) INDICATES INSUFFICIENT DATA

Radiosonde source: 25173 68 55 N 179 28 W Radiosonde station height: 23 Feet Surface obs source: NS198 55 00 N 175 00 W

PERCENT ACCURRENCE OF ENGANCER SUBFACE_TO_SUBFACE PARAP/ESM/COM DOUGES

PERCEN! ULLUKKET	LE UT E	INHUI	<u>.ev</u> :	SUKE	ILE-	10-21	<u> </u>	LE KI	TURP.	, F 2 U 1	CUR	KKIN	*F2:		
FREQUENCY	YE	YEARLY			JAN-MAR			R-JU	JN	J	JL-SI	EP	OCT-DEC		
	day	nit	d£n	day	nit	džn	day	nit	din	day	niţ	d&n	day	nit	dŧn
100 MH=	8	6	8	9	- 8	6	8	0	- 6	3	1	1	8	9	e
1 GHz	3	2	3	2	2	2	3	3	3	6	4	5	, 1	1	1
3 GHz	4	3	3	2	3	3	5	4	4	7	5	€	_2	1	1
6 GHz	6	4	5	4	4	4	7	5	6	10	6	8	4	2	3
18 GH2	17	13	15	13	18	12	14	19	12	17	12	14	23	19	21
28 GHz	34	31	33	33	29	31	27	22	24	28	24	26	51	48	59

SUPPRIE ROSED DUCT SUMMARY.

POKENCE RHEED DOC!	SUNDHKY:	:												
PARAMETER	YEARL	<u>.Y</u>	J	JAN-MAR			PR-J	JH	7	JL-SI	P	OCT-DEC		
	day nit	den	day	nit :	dan	day	nit	d&n	day	nit	din	day	กเเ	d&n
Percent occurrence	2 :	3 2	1	3	2	1	2	2	5	4	5	1	1	1
AVG thickness Kft	ł	.22	1		.24	1		.24	l		.24			. 15
RYG trap freq GHz	İ	2.3	ļ	:	1.4			1.8	ĺ		.90	1		5.3
AVG lyr ard -N/Kft		338	<u> </u>	:	289	L		124			159	L		861

ELEVATED DUCT SUMMARY:

PARAMETER	Y	ARL'	Y	JAN-MAR			APR-JUH			J	JL-SI	EF	OCT-DEC		
	day	nit	dŁn	day	nit	<u>dŁ</u> n	day	nit	din	day	nit	din	day	nit	d&n
Percent occurrence	1	1	1	9	0	8	1	1	1	1	2	2	8		0
AVG top ht Kft			3.0	i		4.2	i		1.8	l		2.9	1		
AVG thickness Kft			.34			.32			.39	L		.31	l		
AVG trap freq GHZ			.47			.44			.32			.66			*
AVG lyr grd -N/Kft	ł		7?	1		8:	;		82	ı		68	i		•
AVG lyr base Kft	ļ		2.8	1		4			1.6	1		2.7	ì		*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCC	URRENCE	YE	ARL	,	J	คพ-พ	A,Ç	Ai	PP-Ji	JN	J	51	€P	0	CT-DI	C
			day	nit	d&n	day	nit	dŁn	day	nit	đần	day	nit	d&n	day	nit	din
9 10	19	Feet	35	34	35	29	29	29	41	42	41	49	47	48	21	19	29
10 to	28	Feet	32	36	34	38	43	41	33	38	35	27	31	29	28	33	31
20 10	30	Feet	18	18	18	28	29	20	13	12	12	11	13	12	28	29	28
36 to	40	Feet	8	?	8	7	5	6	6	4	5	5	4	5	16	15	15
40 10	50	Feel	2	2	2	2	1	1	2	1	1	2	1	2	4	3	3
50 to	60_	Feet	_ 1_	1	1	_ 1	8	1	_1	1	1	1	1	. 1	_ 1	<u> </u>	1
68 10	70	Feet	1	8	9	0	0		1	9	9	1	0	1	1	6	9
78 to	80	Feet	8	8	8	0	8	9	1	8	9	8	0	0	8	8	0
88 to	98	Feet	9	_ 6	8	0	. 9	8	8	3	. 8	9	9	0	0		. 8
98 to	:98	Feet	Ø	0	9	8	8	6	1	Ø	8	8	8	0	6	9	9
abova	100	Feet	2	1	2	1	1	1	3	2	3	3	1	2	1	1	1
Hean he	righ	Feet	19	_17	_19	19	16	18	19	16	17	17	15	16	22	_ 21	_21

PARAMETER	YE	ARL	7	Ji	111-H	AR .	AP	R ~J€	HL	JUL-SEP			00	C	
	day	nit	d&n	day	415	den:	day	nit	dŁn	day	A11	din	day	nit	dan
% occur ELESE dets			3			8			0			8			0
% occur 2+ EL decs			8	ĺ		8			0			9			U
AVG station H			319	l		326			317	1		317			317
AVE station -H/Kft	ļ		13	l .		14			12			12			12
AVG sec used Kts	19	18	19	21	21	21	17	16	16	15	15	15	22	22	_22

64 46 H 177 34 E (*) INDICATES INSUFFICIENT DATA Specified location: Radiosonde source : 25563 64 46 N 177 34 E

<u>e</u>

(C)

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Radiosonde station height: 7 Feet Surface obs source: HS159 55 08 N 175 98 E

PEPCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAP/ESM/COM RANGES:

C. CETT OCCOMMENCE		.,,,,,,,,,,									~~.	******			
FREQUENCY	Y	ERRL	Y	Ji	RH-MA	12	RI	PR-J	JH	J	JL-SI	ΕP	0	CT-DE	EC
<u> </u>	day	nit	d&n	day	rit	d£n	day	nit	den	day	nit	dan	day	กระ	d&n
100 MHz	0	6	8	8	9	0	0	- 6	Ø	9	1	1	0	e	0
1 GHz	3	2	3	2	9	1	4	2	3	4	6	5	2	1	2
3 GHz _	4	3	4	3	1	2	5	3	. 4	5	8	6	3	1	2
6 GHz	6	5	5	4	2	3	8	- 5	- 6	8	11	9	5	2	3
10 GHz	16	13	15	13	9	11	15	10	13	14	15	15	24	18	21
28_GHz	35	33	34	35	29	32	28	25	27	24	29	_26	51	49	59

PARAMETER	Y	EARL'	Y	_ J	AN-M	AR	NI.	-JI	UN	31	JL-SI	EP	0	CT-DI	EC
	day	nit	dŧn	day	nit	dkn	day	nit	dtn	day	nit	ರ ಹಿಗ	day	nit	dŧn
Percent occurrence	1	3	- 2	0	1	1	0	2		3	9	6	1	1	1
AYG thickness Kft	1		. 18	!		. 10			.24	ì		.21	İ		. 15
AVG trap freq GHz			2.3	l		2.8	ı		.79	l		1.4			4.1
AVG lyr and -N/Kft	i		157	Į.		143	i		89	1		187			287

PARAMETER	Y	EARL'	۶	J	AH-M	AR	AI	R-J	אנ	31	JL-SE	P	01	CT-DI	EC
	day	nit	atn	day	nıt	den	day	nit	d&n	day	ntt	dŁn	day	nit	dån
Percent occurrence	2		1	1	1	$\overline{1}$	2	1	Ž	3	3	3	8	9	e
AVG top ht Kft			3.1			1.8			2.4	l		6.8			1.6
AVG thickness Kft			.31			.19			.29	İ		.31	l		. 45
AVG trap freq GHZ			1.0	Γ		2.1			1.9	i		.72			.19
AVS lyr grd -H/Kfs			91	i		185			7:	l		66	i		123
AVG lyr base Kft			3.0	Į .		1.7			2.2	ł		6.6	•		1.4

PERCENT OCCUP	RENCE	YE	ARLY	,	3	H-H9	AR .	A)	R-JI	JH	JI	JL-SI	P	OC	T-DE	ĒC
	l	day	nit	dån	day	nst	₫₽n	day	nit	ರಹಿಗ	day	nit	d&n	day	nit	dan
8 to 10 F	665	35	33	34	27	28	28	40	36	38	53	49	51	19	18	19
18 to 29 f	eet	31	37	34	37	44	48	33	41	37	25	29	27	39	33	32
20 to 30 F	eet	18	20	19	23	28	21	13	15	14	18	14	_12	27	31	29
30 to 49 F	eet	. 6	7	8	8	6	7	5	5	- 5	4	4	4	15	14	14
40 to 50 f	Feet	2	í	2	1	1	1	2	1	1	2	1	1	5	3	4
50 to 60 F	eet_	1_	8	1	1	0	8	1	9	1	1	1	1	1	0	1
60 to 70 f	eet	1	1	1	0	0	0	1	1	1	1	1	1	8	е	e
70 to 80 f	Feet	1	8	0	9	8	9	1	9	1	1	8	1	6	8	0
80 to 98	eet_	0	9	8	i ø	8	0	1	0	8	. 0	8	8	Ð	8	8
90 to 100 i	eet	9	0	0	C	θ	9	1	0	8	9	0	0	0	e	8
above 100 f	Feet	3	1	2	2	8	1	4	:	3	3	2	2	2	1	1
Kean height	Feet_	20	17	18	28	16	18	28	16	18	16	14	15	24	21	22

PARAMETER	Y	ARL'	Υ	_ J£	111-M	R.	A.	R-J	JH	Jŧ	L-SE	P	Đ.	T-DE	EC
	day	011	din	day	nit	dln	day	nit	d&n	day	nit	dkn	day	nıt	d&n
% occur EL&SB dcts			0			. 0			8			0			6
% occur 2+ El. dc s			0	l		0	}		8			0			8
AVG station H			318			319	ł		316			322			315
RVG station -N/Kft			12			13			12			12			12
AVG sfc uind Kts_	19	19	19	22	22	22	17	17	17	15	16	15	24	23	24

Specified location: 63 03 N 179 19 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 25677 63 03 N 179 19 E

Radiosonde station height: 279 Feet Surface obs source: MS199 55 00 N 175 00 E

PERCENT OCCUPRENCE OF ENHANCED SUPERCE-TO-SUPERCE DATABLESH/COM DRUGES:

· Chechii ·	JOODKINGE	<u> </u>	*****	<u> </u>	<u> </u>		0 3	2001 111C	<u> </u>	IDIIN.	LUIT	CO	P 1 1 1 1 1	<u> </u>		
FREC	RUENCY	Y	EARL'	Y	JI	H-HE	R.	RF	R-JU	JN	31	JL-SI	EP -	ő	CT-DE	EC -
		day	nit	dŁn	day	nit_	din	day	nit	d£n	day	nit	d£n	day	nit	d&n
168	MHz	9	0	9	0	0	0	0	9	8	8	8	9	6	. 0	- 0
1	GHz	3	2	2	2	1	1	5	3	4	3	3	3	2	1	2
3	GHz	1_4	2	3	3	1	2	7	4	5	4	3	4	3	2	2
6	GHz	6	4	5	4	2	3	10	5	7	6	6	6	5	- 2	4
10	GHZ	17	12	14	13	9	11	17	11	14	13	19	11	24	19	21
29	GHz	35	32	33	35	29	32	38	26	28	23	24	23	51	49	58

SURFACE BASED DUCT SUMMARY: PARAMETER YERRLY JAN-KAR APR-JUN JUL-SEP OCT-DEC day nit din day nit dan day nit dan day nit dan day nit dan Percent occurrence 2 3 2 2 1 AVG thickness Kft .13 . 15 .14 .11 .13 AVG trap freq GHz 1.6 1.9 1.3 1.3 2.0 AVG lyr grd -N/Kft 179 119 244 191 161

ELEVATED DUCT SUMMARY:

PARAMETER	Y	ERRL'	Y	J	AN-MI	R.	Al	R-J	U#I	JI	JL-SI	EP	01	CT-D	EC
	day	nit	d£n	day	nit	dŁn	day	nit	dŁn	day	nit	dŁn	day	nit	dŁn
Percent occurrence	2	:	1	1	0	1	1	1	1	4	2	3	1	1	1
AVG top ht Kft	i		3.9	l		2.5	!			i		6.2	ı		3.1
RVG thickness Kft	<u> </u>		.33	l		.26	l		.47	i		.35			.24
AVG trap freq GHz			.59			.78			.22			.56			.88
AVG lyr grd -H/Kft	i		68	i		66	1		∓	ĺ		74	Į.		65
AVG lyr base K.t	<u>L</u>		3.5			2.3			2.6	Ĺ		6.0	L		2.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCE	EHT	OCC	URRENCE	YI	ARL'	7	J	AH-M	AR	Al	PR-JI	JH	31	UL-S!	EP	0	CT-DI	EC
				day	nit	dån	day	nit	d£n	day	ni t	dŁn	day	nit	din	day	nit	d&n
- 6	to	10	Feet	35	33	34	27	28	28	48	36	36	53	49	51	19	18	19
10	to	28	Feet	31	37	34	37	44	40	33	41	37	25	29	27	38	33	32
29	to	38	Feet	18	20	19	23	28	21	13	15	14	10	14	12	27	31	29
30	10	48	Feet	8	7	8	8	6	7	5	5	5	4	4	4	15	14	14
48	10	58	Feet	2	1	2	1	1	1	2	1	1	2	1	1	5	3	4
58	to	68	Feet_	1_	8	1	1	9	_ 8	1	_ e	1	1	1	_1	1	0	1
60	10	78.	Fest	1	1	1	e	- 6	8	1	1	1	1	1	1	0	9	8
78	to	88	Feet	1	0	9	0	8	Θ	1	8	1	1	8	1	0	9	9
88	to	98_	Feet	_ ə_	8	0	8	9	8	1_1	9	8	Ð	8	9	_ 0	Θ	0
99	to	109	Feet	0	8	8	0	9	9	1	9	9	9	9	0	0	8	9
abo	ove	169	Feet	3	1	2	2	Θ	1	4	1	3	3	2	2	2	1	1
Hear	n <u>n</u>	e i gh	t Feet	20	17	. 18	20	16	18	20	16	18	16	14	15	24	21	22

FARAHETER	Y	ARL'	Y	Ji	เห-หร	RR	AF	R-JI	אנ	Jŧ	JL-SI	P	01	T-DI	EC
	day	nit	din	day	nit	dŁn	day	nit	din	day	nit	d&n	lday	nit	din
% occur EL&SB dcts			9			8			8			- 0			9
% occur 2+ EL dcts	1		8			0			8	1		9	1		9
AVG station H	[314			314	ŀ		312	i		318	ı		311
AVG station -N/Kft	l		12			12	ŀ		12	l		12	ļ		12
AVG sfc wind Kts	19	19	19	22	22	22	17	17	17	15	16	15	24	23	24

Specified location: 60 21 N 166 00 E (+) INDICATES INSUFFICIENT DATA

Radiosonde source : 25954 60 21 N 166 00 E Radiosonde station height: 7 Feet Surface obs source: MS200 55 00 H 165 00 E

PERCENT OCCURRENCE	OF ENHANCED S	<u> SURFACE-TO-St</u>	<u> IRFACE RADAR</u>	<u>ESM/COM RANG</u>	ES:
FREQUENCY	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
<u> </u>	day nit dan	day nit dan	day nit dan	day nit dan	day nit din
180 MHz	8 8 8	* * *	0 0 0	0 0 0	* * *
1 GHz	5 3 4		4 2 3	7 4 6	* * *
3 GHz	6 4 5		4 3 4	8 5 7	* * *
6 GHz	9 6 8	1 + 1	7 5 6	12 7 9	* * *
10 GHz	16 11 14		12 8 19	20 14 17	* * *
28 GHz	29 24 26	* * *	25 28 22	33 28 31	* * *

CHREACE PACES BUCT CHEMADY.

PARAMETER	Y	EARL	Y	31	AN-M	AR	A	PR-J	אט	J	JL-SI	EP	00	T-DI	EC
	day	nit	d&n	day	_nit	din	day	nit	dŁn	day	nit	din	day	nit	d£n
Percent occurrence	0	1	1	0	0	8	8	2	1	1	2	2	9	8	8
AVG thickness Kft			.33	l		#			.13			.52	l		*
AVG trap freq GHz			.78			•	1		.91	Ì		. 66			*
AVG lyr and -H/Kft			293	ł					382			284	ł		

ELEUATED DUCT CHMMODY.

PARAMETER	Y	EARL'	Y	7	H-HA	RR	A	R-J	UN	J	:L-SI	EP :	9	CT-DI	EC
	day	nit	dŁn	day	nit	d&n	day	nit	dŁn	day	nit	dan	day	nit	d&n
Percent occurrence	2	1	1	1	0	1	1	1	1	4		3	1	9	1
AVG top ht Kft			2.8	l		.36	1		2.7	ļ		4.9	l .		3.1
RVG thickness Kft	1		.27	i		.19	l		. 32	ı		.43	i		.12
AVG trap freq GHz			1.8			1.3			.79			.56			4.4
AVG lyr grd -H/Kft	1		69	1		54	ı		75	1		78	!		77
AVG lyr base Kft	ļ .		2.6	ı		.20	l		2.5	•		4.6	l		3.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCURRE	NCE	YE	ARL	1	Ji	AH-H	R	A	1L-89	JH	J	JL-S	P	o	CT-DE	C
L		i	day	nit	din	day	nıt	d&n	day	nit	dŧn	day	nit	d£n	day	nit	dan
8 to	10 Fee	1	33	33	33	27	27	27	42	42	42	46	45	45	19	17	18
18 to	20 Fee	1	32	37	34	42	46	44	33	48	36	23	27	25	3:	33	32
28 10	30 Fee	<u>t </u>	18	19	18	_19	_ 19	19	12	11	12	13	15	14	28	29	29
30 to	40 Fee	•	8	7	7	6	5	- 6	5	3	4	7	5	6	14	14	14
40 10	50 Fee	1	2	2	2	2	1	1	1	1	1	2	2	2	3	4	4
50 to	68 Fee	2	1	1	1	0	1	1	1	1	1	2	1	1	2	ī	1
68 to	70 Fee	1	1	1	1	۵	0	0	1	9	1	1	1	1	8	1	1
70 to	80 Fee	1	1	8	e	8	9	8	1	1	1	1	9	8	1	8	0
88 to	90 Fee	t j	8	- 8	8	_ 0	9		_ 0	8	. 0	8		_ 8	_ 0	8	. 8
90 to	100 Fee	1	Ø	8	9	0	8	- 6	9	8	0	1	9	8	0	8	0
above	100 Fee		4	2	3	2	1	1	4	1	2	7	3	5	2	1	2
Hean he	right Fe	e2	22	18	20	19	18	18	19	15	17	24	19	22	24	22	23

PARAMETER	YE	ARL	Y	J£	H-H	AR	R!	R-JI	UN	Jl	JL-SI	EP	00	T-DI	EC
	day	nit	dŁn	day	nıt	đần	day	nit	din	day	nit	dir	day	nit	dan
% occur EL\$SB dcts			8			8			8			9			9
% occur 2+ EL dcts			8	1		8	l		6	ĺ		9	1		9
AVG station N			316			314	ļ		315			324]		312
AVG station -N/Kft			12	ł		12	1		12	ŀ		12	l		12
AVG sfc wind Kts	19	19	19	22	21	21	16	16	16	15	15	15	i 22	22	22

Specified location: 68 28 H 73 36 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source: 23146 68 28 N 73 36 E Radiosonde station height: 16 Feet Surface obs source: MS252 65 00 N 5 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADER-ESM/COM RANGES:

	LICELII	OCCONNCINCE	<u> </u>	****	<u> </u>	JUK!	100		3161 336		· DIII	1		*****	<u> </u>		
Г	FRE	QUENCY	Y	EARL'	Υ	Ji	AH-MI	R.	A	PR-JU	394	J	JL-SI	EP	0	CT-DE	EC
L			day	nit	d&n	day	nit	dan	day	១ខែ	din	day	nit	dkn	day	nit	dån
Г	100	MHz	9	0	- 8	0	9	0	0	-	0	Ø	9	Ö	*	#	+
I	1	GHz	3	3	3	1	9	1	4	5	5	5	4	5			•
Ì	3	_GHz	4	4	4	[1	1	1	6	6	6	6	5	5			*
Γ	6	GHz	7	6	6	2	1	1	9	8	8	10	9	9	+	*	*
1	10	GHz	28	27	28	24	25	24	25	23	24	34	35	35		*	-
1	28	GH7	i 57	58	57	i za	61	62	53	48	50	₹Ω.	61	59	i .		•

SURFACE RASED DUCT SUMMARY:

SUKTRUE BROED DUCT	SUNNAKI.				
PARAMETER	YERRLY	JAN-MAR	APR-JUN	JUL-SEP	QCT-DEC
	day nit dar	day nit dan	day nit dan	day nit dan	day nit den
Percent occurrence	1 2 1	0 1 1	1 1 1	2 4 3	8 8 8
AVG thickness Kft	.17	.18	.12	.29	
RYG trap freq GHz	2.9	6.1	1.5	1.1	*
AVG lyr grd -N/Kft	208	189	278	165	

ELEVATED DUCT SUMMARY:

PARAMETER	Y	ERRL'	1	Ji	AH-M	AR	a	PR-J	JN	J	IL-SI	P	O	CT-D	EC
	day	nit	d\$n	day	nit	dŁn	day	nit	d&n	day	nit	dŁn	day	nit	din
Percent occurrence	9	9	Ð	0	0	8	8	6	9	1	6	1	9	8	0
AVG top ht Kft			2.9			1.3			6.3	ł		2.8			1.1
HVG thickness Kft			.26	L _		.09			.34	L		.57	L		.06
AVG trap freq GHz			3.8			4.8			.25			.25	Ι –		10
RVG lyr grd -N/Kft			92			- 56	i		184			70	ı		48
AVG lyr base Kft	L		2.7	L		1.2	L.,		6.2	<u> </u>		2.4	<u> </u>		1.0

EVAPORATION DUCT_HISTOGRAM IN PEPCENT OCCURRENCE:

PERCENT	OCCI	JERENCE	YI	ARL	7	31	AN-H	aR	A	PR-J	UH	1	UL-SI	EP	G	CT-DI	EC _
			day	nit	dkn	day	nit	din	day	nit	d&n	day	nie	din	day	nit	dtn
6 to	10	Feet	15	15	15	10	9	10	19	22	21	19	17	18	13	11	12
18 to	28	Feet	26	25	26	29	28	28	29	31	30	24	23	23	21	28	56
20 10	39	Feet	29	31	39	36	39	38	28	26	27	24	26	25	27	33	38
38 to	48	Feet	18	20	19	18	21	58	14	13	13	17	28	19	22	25	24
40 10	58	Feet	6	5	5	4	3	3	3	2	2	7	7	7	19	7	9
50 to	60	Feet	2	1	2	1		1	1	1	1	3	2	3	4	2	3
68 10	78	Feet	í	0	1	8	- 6	3	ī	1	1	1	1	1	1	0	1
70 to	83	Feet	1	9	9	8	8	9	1	1	1	1	в	0	1	9	8
80 to	90	Feet	8	8	9	θ	8	8	1	8	9	9	8	8	9		0
90 10	100	Feet	9	9	0	8	0	θ	0	1	1	8	9	0	0	9	0
above	199	Feet	3	2	2	1	9	8	4	4	4	4	2	3	2	8	1
Hean h	eight	Feet	27	25	26	23	_ 23	23	27	25	26	30	27	_28	29	25	27

PARAMETER	ΥE	ARL	Ϋ́	11	RN-HI	RR	AF	R-J1	אט	Jŧ	IL-SI	P	00	Ci-Di	:c
	day	nit	din	day	nit.	den	day	nit	din	day	nit	d£n	day	nit	GEn
% occur EL&SB dcts			ů			9			8			\$			e
% occur 2+ EL dcts			8	l		0			θ			8	}		e
AVG station N			318	i		328	Į		315			328	1		315
AVG station -H/Kft			13			14	ĺ		12			13	l		12
AVG sfc wind Kts	18	17	18	28	28	20	15	14	14	15	15	_15	21	_21	_21

H

(*) INDICATES INSUFFICIENT DATA

Specified location: 69 46 N 61 40 E Radiosonde source: 23022 69 46 N 61 48 E Radiosonde station height: 174 Feet Surface obs source: MS252 65 08 N 5 00 E

PEPCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

PLOTIN OCCONFRIGE	<u> </u>		<u> </u>	<u> </u>	_										
FREQUENCY	Y	EARL	7	31	H-M	1R	A	R-J	IH	Jt	JE-SI	P	0	CT-DI	EC
	day	nit	dtn	day	nit	dån	day	nit	4ån	day	nit	dan	day	nit	dŁn
100 MHz	0	0	0	Ø	Ø	- 8	0	8	0	1	Ð	0	*	*	*
1 GHz	4	3	3	1	1	1	5	5	5	6	3	5	*	*	*
3 SHz	5	3	4	1	1	1	6	6	6	8	4	6	*	*	*
& GHI	8	5	7	2	1	2	9	8	- 9	12	7	10	*	*	*
19 GHz	28	27	28	24	25	24	26	23	24	36	34	35	*	*	*
20 GHz	57	57	57	68	64	62	53	48	50	59	60	59			*
	FREQUENCY 100 MHz 1 GHz 3 SHz 6 GHz 10 GHz	FREQUENCY YI day 100 MHz 0 1 GHz 4 3 SHz 5 6 GHz 8 10 GHz 28	FREQUENCY YEARL day nit 100 MHz 0 0 1 GHz 4 3 3 SHz 5 3 6 GHz 8 5 10 GHz 28 27	FREQUENCY YEARLY day nit dtn 100 MHz 0 0 0 1 GHz 4 3 3 3 SHz 5 3 4 6 GHz 8 5 7 10 GHz 28 27 28	FREQUENCY YEARLY JI day nit din day 100 MHz 0 0 0 0 0 1 GHz 4 3 3 1 3 SHz 5 3 4 1 6 GHz 8 5 7 2 10 GHz 28 27 28 24	FREQUENCY YEARLY JAN-Mi day nit dtn day nit 100 MHz 0 0 0 0 0 0 1 GHz 4 3 3 1 1 3 SHz 5 3 4 1 1 6 GHz 9 5 7 2 1 10 GHz 28 27 28 24 25	FREQUENCY YEARLY JAN-MAR day nit dan 100 MHz 0 0 0 0 0 0 0 1 GHz 4 3 3 1 1 1 1 3 SHz 5 3 4 1 1 1 1 5 GHz 8 5 7 2 1 2 10 GHz 28 27 28 24 25 24	FREQUENCY YEARLY JAN-MAR AND MAY NOT CAME AND AND AND AND AND AND AND AND AND AND	FREQUENCY YEARLY JAN-MAR APR-JU day nit dtn day nit dt	FREQUENCY YEARLY JAN-MAR APR-JUN day nit dtn day n	FREQUENCY YEARLY JAN-MAR APR-JUN JUL-SI day nit dtn da	FREQUENCY YEARLY JAN-MAR APR-JUN JUL-SEP day nit dtn dtn day nit dt	FREQUENCY YEARLY JAN-MAR APR-JUN JUL-SEP OCT-DI day nit dtn day ni		

SUPFACE BASED BUCT SUNNARY:

PARAMETER	Y	ARL	r	Ji	111-M	HR	8P	R-JI)}}	Ji	JL-SI	EP	0	CT-D!	EC
	dau	กเเ	d\$n	day	nit	dån	day	nit	d&n	day	nit	dŁn	day	nit	d&n
Percent occurrence	2	1	1	8	1	1	2	i	2	5		4	0	9	9
94G thickness Kft			. 14	İ		. 18	l		.16			. 16	Į		*
AYG trap freq GHz			1.4			1.1	1		1.6			1.6	ļ		
AVG lyr grd -H/Kft			253			434	i		166	l	_	158	l		#

ELEVATED DOCT SOMME										-					
PARAMETER	Y	PRL	Y	J	AN-M	AR	A1	PR-J	אנ	3	UL-S	EP	1 0	CT-D	EC
	day	nit	d&n	day	nit	d&n	day	nit	din	day	nit	d&n	day	nit	dan
Percent occurrence	Θ	8	Ø	8	8	8	Θ	9	9	1	1	1	0	8	0
AYG top ht Kft			1.6	Ì		4	i i		.47			3.7	i		.58
AVE thickness Kft	L		.38	ì		. *	L		. 37			.50	L		.26
AVG trap freq GHz			.85			4	ļ —		1.0			.62			.93
AVG lyr grd -N/Kft			89	•		•	l		184	i		107	l		57
AVG for base Kft	İ		1.4	l		4	l		. 32	Į		3.6	l		.38

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	000	URRENCE	1/6	ARLY	7	31	AH-HI	AR	AI	PR-J	JH	Ji	JL-SI	P	O	T-DE	C
L			day	nit	der	day	nit	den	day	nst	dŁn	day	nit	d&n	day	nit	dan
8 40	: 6	Feet	15	15	15	10	9	19	19	22	21	19	17	18	13	11	12
19 40	20	Feet	26	25	26	29	28	28	29	31	39	24	23	23	21	28	50
28 <u>5</u> 2	38	Fret	29	31	30	36	39	38	28	26	27	24	26	25	27	33	38
36 20	40	Feet	18	20	19	15	21	28	14	13	13	17	28	19	22	25	24
40 to	58	Feet	6	5	5	4	3	3	3	2	2	7	7	?	18	7	9
50 to	69	Fect	2	1	2	1	9	1	1	1	1	3	2	3	4	2	3_
68 10	79	Feet	1	9	1	0	Ø	8	1	1	1	1	1	1	1	8	1
70 tc	88	Feet	1	0	0	0	9	e	1	1	1	1	9	0	:	6	9
88 10	99	Feet	0	. 0	9	_ 8		8	1_	. 0	- 8	e	8	ə	0	6	. 0_
98 to	100	Feet	0	- 0	g	8	8	8	9	1	1	9	8	0	0	- 8	9
above	:00	feet	3	2	2	1	8	8	4	4	4	4	2	3:	2	0	1
Hean h	eigh	Feet	27	25	26	23	23	23	27	25	26	30	27	28	20	25	27

PARAMETER	YEARLY	JAN-MAI	APR-JUN	JUL-SEP	OCT-DEC
	day nis de	n day nit i	lan day nit dan	day nit din	day nit dan
% occur EL&SB dcts		0	0 6	8	9
% occur 2+ EL dcts	i	0	9 9	9	6
RYG station H	31	3 :	313	317	310
AVG stat on -H/Kft	1	2	12 12	12	12
AVG sfc wind Kes	18 17 1	8 20 20	20 15 14 14	15 15 13	21 21 21

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

Specified location: 59 58 N 30 18 E Radiosonde source : 26863 59 58 N 38 18 E

Radiosonde station height: 230 Feet

Surface obs source: MS215 55 00 H 15 00 E

DEDICAL UCCURRENCE OF EMPONEE CUREOUF TO CHREGE BUILD SENVIOW BRACES.

PERCENT OCCURRENCE	UF 5.	יחממח		JUKE	nce-	10-2	UKFR	CC RI	<u>nunr</u>	ESIT		KINN	JEJ.		
FREQUENCY	YI	EARL'	<u> </u>	J	AN-MI	R.	Al	PR-J	JN	31	JL-SI	P	01	CT-DE	C
	day	nit	d&n	day	nit	d&n	day	nis	dan	day	nit	d&n	day	nit	ರಹಿಗ
100 MHz	9	- 0	0	6	9	9	Θ	1	0	9	1	1	9	8	9
1 GHz	9	7	8	2	1	2	15	12	13	18	13	15	3	2	3
3 GHz	11	9	10	3	2	_ 2	17	14	15	21	17	12	4	3	3
6 GHz	17	13	15	4	3	3	24	17	21	33	25	29	7	6	6
10 GHz	31	25	28	7	5	6	34	27	31	58	47	52	24	21	23
20 GHz	46	42	44	14	13	14	47	42	44	76	_ 66	7:	48	46	47

(*) INDICATES INSUFFICIENT DATA

SURFACE BASED DUCT SUMMARY:

DOIN 1100 011010 DOG 1 1														
PARAMETER	YEAR	LY	J	คน-หเ	RR	AF	R-JI	JH	J	UL-SI	EP	0	CT-9	EC
	day ni	t din	day	nit	d\$n	day	nit	dån	day	nit	<u>d&n</u>	day	nit	ป&ก
Percent occurrence	1	4 3	ī	Ø	1	1	5	3	2	10	6	1	1	1
AVG thickness Kft	ļ	.28	l		.12	i		.22			.19	Ì		.27
RVG trap free GHz	ľ	1.8	!		3.9	Ì		1.2			1.6	•		1.0
AVG lyr grd -N/Kft	<u> </u>	157	<u>i</u>		235			116			111			165

ELEUSTED DUCT CHREADY.

PARAMETER	Y	ARL'	r	J	AN-M	R.	AI	R-J	JH	J	JL-SI	EP	00	CT-D	EC
	day	nit	din	day	nit	d&n	day	nit	dan	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	1	1	1	2	2	2	3	5	4	Ø	1	1
AVG top ht Kit	i		3.7	l		3.2	i		3.2	ì		5.7	}		2.6
RYG thickness Kft	1		.23	l		. 15	l		.26	1		.24			.28
AVG trap freq GHz			1.6			2.1			1.7			2.8			.78
AVG lyr grd -N/Kft	ļ.		63			56			65	ļ		67	ļ		53
AYG lyr base Kft	l		3.5	i		3.9	I		3.1	ļ .		5.5	i		2.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	330	URRENCE	Y	ARL	7	J	AN-M	AR	H	PR-J	UN	J	UL-SI	EF	O	CT-D!	Ç
			day	กเเ	d£n	day	nit	d&n	day	nit	d&n	day	nit	dŁn	day	nit	d&n
Ø to	10	Feet	30	31	30	51	47	49	33	38	36	12	19	15	22	21	22
16 to	28	Feet	25	29	27	36	39	38	21	23	22	12	19	15	31	34	33
20 to	38	Feet	15	17	_16	_6	8	7	12	15	13	19	_ 21	_ 38	24	25	24
30 to	48	Feet	9	9	9	2	2	- 2	7	7	7	14	15	15	12	11	12
40 to	50	Feet	5	4	5	1	1	1	4	3	3	13	7	9	5	4	5
58 to	69	Feet	3	. 2	3	0	1	1	3	_ 2	2	7	- 5	6	5	2	2
68 to	78	Feet	2	1	1	θ	0	9	2	1	1	1	2	3	1	6	1
78 to	88	Feet	1	0	1	9	9	9	2	0	1	2	1	1		0	9
80 to	90	Feet	1	1	1	8	8	9	2	8	1	_ 2	_ 1	2	6	1	
98 to	100	Feet	1	0	1	1	0	1	1	0	1	1	1	1	8	0	0
above	188	Feet	9	5	7	2	1	2	14	18	12	17	8	13	5	2	2
Hean h	eigh	t Feet	34	26	39	14	14	14	41	32	37	56	_ 37	46	24	22	23

PARAMETER	YE	PLY		JF	M-M	₹F	RF	R-JI	ИL	31	JL-SI	P	00	T-DE	C
	day :	nit	dùn	day	nit	d&n	day	nit	din	day	nit	din	344	nit	den
% occur EL&SB dcts			8			9			9			9			- 9
% occur 2+ EL dcis			θ			9			8	l		θ.	i		9
AVG station N			317	}		311			315	•		328	ļ		313
AVG station -N/Kft			12			12			12			13	l		12
AVG sfc wind Kts	14	13	13	14	15	14	11	11	11	12	11	11	16	16	16

(*) INDICATES INSUFFICIENT DATA

Specified location: 61 43 N 38 43 E Radiosonde source : 22802 61 43 N 30 43 E

Padiosonde station height: 59 Feet

Surface obs source: MS215 55 00 N 15 00 E

DEDCENT OCCUPATION OF ENGAGER CHREACE_TO_CHREACE DATED/ESN/COM DANCES

~	KUENI	JUUUKKENUE	Ur EI	HHHI	JED :	2086	HLE-	10-50	1K-UI	<u>, E, KI</u>	אאעוי	ESU.	CUN	KINN	<u> </u>		
Г	FRE	QUENCY	YI	ARLY	7	J	FN-M	ar .	Al	R-JI	JH	31	JL-SI	P	00	CT-BE	C
L			day	nit	_d&n	day	nıt	dan	day	nit	den	day	nit	d&n	day	nit	d&n
Г	169	HHZ	0	8	- 0	0	9	0	8	0	8	0	1	0	8	- 6	9
1	1	GHz) 9	6	8	2	1	2	15	11	:3	17	11	14	2	2	2
L	3	GHz	11	8	9	3	2	2	_17	12	15	19	14	17	3	3	3
Г	6	GHz	16	11	14	3	3	3	24	16	20	32	22	27	6	5	6
	18	GHz	36	24	27	7	5	6	34	25	38	57	44	51	24	21	22
L	20	GHz	46	41	43	13	13	13	47	48	43	76	65	70	47	46	46

SUPERIC BASET BUCT SUMMARY.

PARAHETER	Y	ARL	Ÿ	31	H-H	ak .	Al	R-JI	JN	Ji	JL-SI	P	CI	T-D	EC
i	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	din
Percent occurrence	8	2	1	Ö	0	-8	1	3	2	Э	5	3	Ð	1	1
AYG thickness Kft	ĺ		.32	!		.31	•		. 42	1		. 38	1		.17
AVG trap freq GHz			1.9	ļ		.55	ļ		2.1	ł		. 89	İ		4.2
AVS lyn grd -N/Kft			289	L		131	<u> </u>		144	L		170	L		391

ELEVATED DUCT SUMMARY:

PARAMETER	Y	ARL'	Υ	31	RN-M	BR	AI	R-JI	UH	Jl	JL -S	P	0	CT-DI	EC
	day	nit	d&n	day	nıt	đần	day	nit	d&n	day	nit	dån	day	nit	d%n
Percent occurrence	9	2	1	0	1	1	0	1	1	ß	4	2	0	9	9
AVG top ht Kft			4. i	l		2.8	i		3.5			4.8	l		5, 1
AVG thickness Kft	1		.28	i		.27	j		. 34	i		. 27			.22
AVG trap freq GHz			1.6			2.5			.79			1.2			1.8
AVG lyr grd -H/Kft	1		58			62	i		59	ì		57	l		₹3
RVG lyr base Kft	1		3.8	1		2.6	1		3.3	.		4.6	1		5.0

EVAPORATION BUCK AUSTOCRAM IN PERCENT OCCUPRENCE!

ZAUL OKU I IO		SIUGR			-NOL	11 01	COK									
PERCENT 0	CCUPRENCE	YE	BELY	,	Ji	H-MF	AR	RE	アーノリ	JH	JI	UL-SI	P	00	CT-DE	EC
		Cay	nit	dŁn	day	nit	dàn	day	niţ	d&n	day	nit	důn	day	nit	ď&n
0 to i	8 Feet	30	31	30	51	47	49	33	38	36	12	19	15	22	21	22
10 10 2	O Feet	25	23	27	36	39	38	21	23	22	12	19	15	35	34	33
28 to 3	0 Feet	15	17	16	6	8	7	12	15	:3	19	21	20	24	25	24
30 to 4	0 Feet	9	9	9	2	2	2	7	7	7	14	15	15	12	11	12
40 to 5	0 Fest	5	4	5	1	1	1	4	3	3	10	7	9	5	4	5
58 to 6	0 Feet	3_	2	3	8	1	1_	3	2	2	_ 7	5	6	2	2	2
60 to 7	0 Feet	2	1	ī	0	8	8	2	1	1	4	2	3	1	0	1
78 to 8	36 Feet	1	9	1	0	9	0	į 2	9	1	2	1	1	8	9	Θ
30 to 9	0 Feet	1_	1	1	0	. 0		2	0	1	2	1	_2	_ 0	1	. 0
90 to 1	00 Fest	1	- 0	1	1	- 0	1	1	8		1	1	1	0	- 8	- 43
above 1	100 Feet	9	5	7	2	1	2	14	18	12	17	8	13	2	2	2
Hean her	ght Feet	34	26	36	14	14	14	41	32	37	56	37	46	24	22	23

PARAMETER	YE	ARLY	,	Jf	in-H	1R	AF	R J	HU	30	JL-SE	P	00	T-DE	C
L	day_s	311	d&n	day	210	dan	day	nit	76.5	day	611	đen	day	nit	d&n
% occur ELESE dets			0			9			0			0	[8
% occur 2+ EL dets	-		8	1		0	i		9	i		A	•		9
976 station N			318	1		314	!		316			329	i		314
AVG station -N/Kft	i		12	ŀ		12			12	1		13	i		12
AVG sfc wind Kts	14	13	13	14	15	14	11	11	11	12	1.1	11	_:6	16	16

Specified location: 65 33 H 22 07 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 2057 65 33 N 22 07 E Radiosonde station height: 56 Feet

Surface obs source: HS252 65 00 N 5 00 E

PERCENT OCCUPRENCE OF ENHANCED SUPERICE-TO-SUPERICE RADAR/ESM/COM RANGES:

CACEITY OCCOMMENCE	<u> </u>	CHILITY		JUFF	<u></u>	<u>. v</u>						411111	<u></u>		
FREQUENCY	YI	ERRL'	Y	Jf	H-HF	R.	A F	PR-JI	UN	J	UL-SI	EP	01	CT-DE	EC
	day	nıt	dan	day	nit	d&n	day	nit	dan	day	การ	d&n	day	nıt	den
100 MHz	0	8	G	8	ð	9	0	0	e	8	0	0	8	9	0
1 GHz	3	3	3	1	9	1	4	6	5	6	4	5	2	1	1
3 GHz	4	3	4	1	1	1	6	7	6	7	4	6	3	1	2
6 GHz	8	- 5	7	3	1	2	8	16	9	11	8	10	8	3	
18 GHz	31	39	30	24	25	24	25	24	25	35	35	35	49	35	36
20 GHz	59	60	60	60	€4	62	53	49	51	58	61	59	67	68	67

SUPPACE BASED DUCT SUMMARY:

PARAMETER	YI	ARL	Y	J	AN-MI	AR	RI	R-J	JH	J	JL-SI	ΕP	01	T-D	EC
	day	nit	dŁn	day	nit	ძგე	day	nit	d&n	day	nít	d&n	day	nit	d&n
Percent occurrence	2	3	2	1	1	1	1	4	3	3	3	3	1	${1}$	1
AVG thickness Kft			. 17			.13			. 18	İ		.24	l		.12
AVG trap freq GHz			2.6	i		3.8	ł		2.0	ł		1.0	ı		3.8
AVG lyr grd -N/Kft			136			226			103			72			144

ELEVATED DUCT SUMMARY:

PARAHETER	Y	EARL'	Y	J	RH-MI	ar -	91	7R-J	JИ	Ji	JL-Si	EP	00	CT-DI	EC
	day	niţ	den	day	nıt	dan	day	nit	d&n	day	nit	d&n	day	nit	dtn
Percent occurrence	2	3	2	1	1	1	2	4	3	3	5	4	0	8	0
AVG top ht Kft			2.7	1		3.8			. 69			2.4	}		4.7
AVG thickness Kft	_		.16	<u> </u>		.08	1		. 19			.31	l		.08
AVG trap freq GHz			3.4			4.1			1.7			.83	i		6.9
AVG lyr grd -N/Kft			59	l		69	i		63			56	l		48
AVG lyr base Kft			2.6			2.9			. 35			2.1	L		4.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURE NCE:

PERCENT	OCCI	JRRENCE	Ϋ́	ARL'	1	JI	ลิพ-:::	315	RI	PR-J	ИN	7	UL-SI	ΕP	ő	T-DE	EC
			day	nst	dtn	day	การ	dŁn	day	nit	_d&n	day	nit	dtn	day	nit	d&n
O to	10	Feet	15	15	15	10	9	10	15	22	21	19	17	18	13	11	12
10 to	28	Feet	26	25	26	29	28	28	29	31	30	24	23	23	21	20	20
20_t c	30	Feet	29	31	_38	_ 36	39	38	28	26	27	24	_26	25	27	33	38
30 to	40	Feet	18	20	19	18	21	28	14	13	13	17	20	19	22	25	24
40 %	50	Feet	6	5	5	4	3	3	3	2	2	7	7	7	10	7	9
50 to	68	Feet	2	1	_ 2	_ 1	0	1	1	1_	1	3	2	3	4	2	3
68 to	79	Feet		0	1	9	9	0	1	1	1	1	1	1	1	8	1
79 to	80	Feet	1	9	9	l a	0	8	1	1	1	1	9	0	1	8	8
88 tc	98_	Feet	8	Θ	9	0	8		_1	0	_ 0	0	6	8	8	. 0	
50 to	100	Feet	8	- 0	8	0	8	Õ	Ø	1	1	O	- 0	0	8	6	0
above	190	Feet	3	2	2	1	9	9	4	4	4	4	2	3	2	в	1
Hean h	eigh	Feet	27	25	26	23	23	23	27	25	26	38	27	28	29	25	27

CO.111111111111111111111111111111111111				
YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
day nit der	day nit dan	day nit din	day nit dan	day nit dan
- 6	0	0	8	8
e	6	9	8	8
316	311	314	327	313
12	12	12	13	12
18 17 18	28 28 28	15 14 14	15 15 15	21 21 21
	YEARLY day nit dan 0 316	YERRLY JAN-MAR day nit dan day nit dan 0 0 0 316 311 12 12	YERRLY JAN-MAR APR-JUN day nit dan day nit dan 0 0 0 0 0 316 311 314 12 12 12	YEARLY JAN-MAR APR-JUN JUL-SEP day nit den day nit den day nit den day nit den 0 0 0 0 0 0 0 0 316 311 314 327 12 12 12 13

(*) INDICATES INSUFFICIENT DATA

Specified location: 67 15 N 14 24 E Radiosonde source: 1152 67 15 N 14 24 E

Radiosonde station height: 26 Feet

Surface obs source: MS252 65 00 N 5 00 E

PEPCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM:COM RANGES

PEPCENT OCCURRENCE	JF E	инни	150	SURF	HLE-	10-21	וח דאנ	-E KI	יאמעוי	<u> 230</u>	· C OH	MUM	<u> 1651</u>		
FREQUENCY	Υ.	EARL'	Y	J	คห-หเ	BR	Al	PR-JU	H	J	UL-SI	P	0	CT-DI	EC
	day	nıt	dan	day	nit	dan	day	nit	d&n	day	nit	d&n	day	nit	dan
190 MHz	9	8	8	9	8	8	8	0	9	9	8	- 8	8	8	9
1 GHz	3	2	3	1	9	1	5	5	5	4	3	4	2	1	1
3 GHz	4	3	3	1	. 0	1	6	6	6	5	4	5	2	1	1
6 GHz	7	5	6	3	Θ	2	9	9	9	18	8	9	8	3	6
10 GHz	31	29	30	24	24	24	26	23	24	34	35	34	49	35	38
_28 GHz	59	69	69	69	63	62	53	48	51	57	60	59	66	68	67

SUPERCE BROCK BUCK SUMMORY.

PARAMETER	Y	ERRL	Y	J	คห-หเ	AR	A.	R-JU	н	J	JL-S	EP	01	CT-DI	EC
	day	nit	dan	day	nıt	d&n	day	nit	₹n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	2	1	1	0	1	2	2	z	1	3	2	0	1	1
AYG thickness Kft			.19	i		.12	i		^^	ı		.16	l		.21
AVG trap freq GHz	i		2.0			2.9	ı					1.7	i		1.4
AVG lyr grd -N/Kft			151	ļ		210	Į		84	1		231	1		78

ELEVATED DUCT SUMMARY:

PARAMETER	YI	EARL'	Y	J	Ah- M	AR	AI	-R-JI	ρN	J	JL-SI	P	00	CT-DE	EC
	day	nit	d&n	day	nit	dan	day	nıt	d&n	day	nıt	d&n	day	nit	d&n
Percent occurrence	1	1	1	8	0	8	1	1	1	2	3	3	0	0	0
AVG top ht Kft			2.1			.58	l		1.8	i		3.9	i		*
AVG thickness Kft			.18	ŀ		. 13			. 17	l		.23	l		*
AVG trap freq GHz			3.2		_	4.9			3.1			1.7			*
RVG lyr grd -N/Kft			52	ł		48			55	!		53	ĺ		*
AVG lyr base Kft			1.9			. 45	i		1.7	l		3.7	1		*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OC	URRENCE	Y	EARL	ť	31	AH-KI	RR	Al	R-JI	บห	7	JL-S!	EP	00	CT-DE	EC
		dau	nit	din.	day	nit	dan	day	nit	dŁn	day	nit	dån	de	nit	din
8 to 18	Feet	15	15	15	10	9	10	19	22	21	19	17	18	13	11	12
10 to 20	Feet	26	25	26	29	28	28	29	31	30	24	23	23	21	20	28
20 to 30	Feet	29	31	38	36	39	38	28	26	27	24	26	25	27	_33	30
30 to 40	Feet	18	20	19	18	21	20	14	13	13	17	20	19	22	25	24
40 to 50	Feet	6	5	5	4	3	3	3	2	2	7	7	7	19	7	9
50 to 60	Feet	2	1	2	1	8	_ 1	1	1	:	3	2	3	4	2	3
60 to 70	Feet	1	Ð	1	0	0	9	1	1	1	1	1	1	1	9	1
70 to 80	Feet	1	0	9	0	0	อ	1	1	1	1	8	9	1	8	9
80 to 90	Feet	υ	0	Э	0	8	. 0	. 1	0	. 0	8	8	9	9	3	0
90 to 10	Feet	9	0	8	0	0	9	9	1	1	0	8	0	0	0	0
above 10:) Feet	3	2	2	1	9	9	4	4	4	4	2	3	2	8	1
Hean heigh	nt Feet	27	25	26	23	23	23	27	25	26	36	27	38	29	25	27

SENEPAL METEOPOLOGY SUMMARY:

PARAMETEP	YE	ARL	Y	JF	H-H	J.R	AF	R-JI	HT.	Jŧ	IL-SE	P	01	IC-TC	EC
	day	111	a'n	day	<u> 110</u>	dan	day	ni-	din	day	nit	din	da;	nit	den
% occur EL&SE dcts			_ 0			ម			9			0			0
2 occur 2+ EL dcts			8	ŀ		9	l		0			8	į		0
AVG station N			316	l		310	i		317	ŀ		327			311
AVG station -N/Kft	ŀ		12	1		11			12			13			12
AVG sfc wind Fts	18	17	18	20	28	20	15	14	14	15	15	15	21	<i>2</i> 1	21

Specified location: 62 31 N 17 27 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 2066 62 31 N 17 27 E

Radiosonde station height: 20 Feet

Surface obs source: MS252 65 88 N 5 88 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-IO-SURFACE RADAR/ESM/COM RANGES:

C F.W.	CCOKELICE	<u> </u>	1711111		JUKI	HC L	. 0 . 3	JK 1 110		IDITE .	<u> 2311-</u>	<u> </u>	C11111	***		
FRES	NENCY] YI	EARL'	Y	3	M-HR	AK	Af	R-JI	JH	JU	JL-SI	EP	00	CT-Di	C_
		day	mit	d&n	day	nit	din	day	กาะ	dan	day	nıt	d&n	day	nit	dan
100	MHZ	8	0	9	+	#	*	9	9	0	8	0	8	8	9	8
1	GHz	3	2	3	*	*	•	4	4	4	4	2	3	2	9	1
3_	GHz	4.	_ 3	3	*	*	*	i 5	5	5	5	3	4	2	_ A	1
6	GHz	8	5	7	+	*	*	8	7	8	9	- 6	8	8		_;
10	GHz	33	30	31		÷	*	24	22	23	34	33	33	48	35	37
20	GHz	! 59	58	58	*	*	*	52	48	50	57	60	58	66	68	67

SUSFACE RASED DUCT SUMMARY.

SORFICE BUSED DOCT	SOMM	<u> </u>													
PARAMETER	YI	ERRLI	7	J	H-N	ar 🗌	A:	R-J	ИL	7	JL-SI	EP	G	CT-D	EC_
	Jay	nıt	d&n	dav	nıt	d&n	day	nit	oiln	day	nit	<u>d&n</u>	day	nit	dan
Percent occurrence	9	9	8	6	Ø	0	9	8	8	1	— ī	1	0	- 8	8
AVG thickness Kft	l		.22	l		*	1		. 20	l		.31	l		. 15
AVG trap freq GHz	ŀ		2.9			*	l .		2.8	1		5.4	1		1.2
AVG lyn gnd -N/Yft			128			*			139			263	<u> </u>		162

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL	Y	31	AH-H	ar 🔠	RI	PR-JI	JN	36	JL-Si	EP	00	CT-D	Ē٤
	day	nit	d&r.	day	nıt	din	day	nit	d&n	day	nit	dŁn	day	nit	dan
Percent occurrence	1	1	1	0	0	0	1			3		3	8	9	e
AVG top ht Kft	1		2.9	l		7	i		2.0			5.8	i		*
AVG thickness Kft			.19	<u> </u>		.06			.30	i		.21	[_*_
AVG trap freq GHz			3.2			6.2			1.3			1.9			7
AVG lyr grd -N/Kft	l .		52			48	ĺ		56			53	ĺ		#
AVG lyr base Kft	i		2.7	ı		.80	l		1.7			5.6	1		*

EVAPORATION DUCT HISTOGRAM IN PEPCENT OCCURRENCE:

PERCENT OCCURP	ENCE	YER	RLY		Jf	3H-HE	R	AF	R-JL	H	Jt	JL-SE	P	00	T-DE	C_
		ay n	it	dén	day	nıt	ರಹಿಗ	day	<u>ការ ខ</u>	d&n	day	nıt	d&n	day	nit	dan
8 to 18 F2	62	15	15	:5	10	9	10	19	22	21	15	17	18	13	11	12
10 to 20 Fe	et	26	25	26	29	28	28	29	31	30	24	23	23	21	20	26
28 1 C 38 Fe	et :	29	31	38	_36	39	38	_28	_26	27	24	26	_25	27	_33	_ 38
38 10 48 Fe	et	18	28	19	18	21	28	14	13	13	17	26	:9	22	25	24
40 to 50 Fe	et	6	5	5	4	3	3	3	2	2	7	7	7	10	7	9
58 to 68 Fe	et	2	1	2	_ 1	9	_ 1	1	1	1	_ 3	2	3	4	2	_ 3
60 to 70 Fe	et	1	0	1	6	9	0	1	1	1	1	1	1	1	- 0	1
79 to 80 Fe	23	1	0	8	a	8	0	1	1	1	1	8	9	1	9	€
80 to 98 Fe	et	0	8	ø	9	8	Ű	1	8	8	டு 8	3	9	0	_ 0	0
93 to 100 Fe	et	8	-6	0	8	0	В	Ø	1	1	9	0	9	8	8	0
above 100 Fe	et	3	2	2	1	в	Θ	4	4	4	4	2	3	5	9	1
Hean height F	eet :	27	25	26	23	23	23	27	25	26	30	27	28	29	25	27

PARAMETER	YE	r L	7	Jf	14-K	R.	RP	R-3	אנ	JŁ	JL-SE	P	S	T-DI	EC
	day :	01 t	đěn	day	131 \$	din	day	nit	din	day	ภาเ	dan	day	n11	QUD
% occur ELLS3 deta			0			-0			8			Ð			- 6
% occur 2+ EL dets			8			e e	[9			8			8
AVG station N			317	i		312	1		316	l		327	ŀ		314
PVG station -N/Kft			12	1		12	ĺ		12	ł		13	l		12
AVG sec wind kts	18	17	18	20	20	29	15	14	14	15	15	15	2 i	.21	21

Specified location: Radiosonde source : 4YM

65 42 H 2 12 E 65 42 N 2 12 E (*) INDICATES INSUFFICIENT BATA

39 Feet

Radiosonde station height: Surface obs source: MS252 65 88 N 5 88 E

DEDCENT OCCUPATION OF ENGLISHED CONTROL TO CONDECSE DARRO SERVICAN DANCES

PERCENT OCCUPRENCE	UP E1	אחחתי	. L D_		HCE-										
FREQUENCY	Y	EARL	r	J	AH-HI	AR	A	R-J	JN	31	UL-S	ΕP	e e	CT-D	EC
	day	nit	dan	day	nit	den	day	nit	d&n	day	nit	dan	day	nit	dŁn
100 HHz	. 6	0	E		*	*	0	0	8	9	0	- 9	6		6
1 GHz	3	3	3	4	*	•	4	5	5	5	3	4	! 2	1	1
3 GHz	4	4	4		_ +	_+	5	6	6	5	4	- 4	_ 2	1	1_
€ GHz	8	6	7	+	*	#	8	9	8	10	7	8	8	3	5
10 GHz	33	31	32		*	*	24	23	24	34	34	34	48	35	38
20 GHz	59	59	53	*		*	52	49	58	57	68	59	66	€8	67

PARAMETER	Y	EARL	7	Ji	AH-M	R.	A.	R-J	JN	Ji	JL-SI	ΕP	01	CT-D	EC
	day	nit	dsn	day	nit	dan	day	nit	dan	day	nıt	dån	day	nit	dtn
Percent occurrence	8	1	1	Ø	- 8	9	0	2		1	2	2	0	1	1
RYG thickness Kft			.20			*	ł		.26	1		.24	1		. 11
AVG trap freq GHz			2.1	Ì			i		1.3	l		1.1	l		4.0
AVG lyr grd -N/Kft			138	_		*			124	i		205			86

FIEVATED BUCT SUMMARY:

PARAMETER	Y	EARL'	r	31	AN-MI	AR	AI	R-J	אט	JI	JL-SI	EP	0	CT-DI	EC
	day	Fe ? 2	den	day	nit	d&n	day	nit	dån	day	ការ	d&n	day	nit	dan
Percent occurrence	2	3	2	1	1	1	2	4	3	4	-4	4	1	1	ī
AVG top ht Kft			3.9	l .		5.9	l		2.3	1		3.4	l		3.8
AVG thickness Kft			.26			.21	!		. 26	1		.27	l		.28
AVG trap free GHz			1.2			1.3			1.4			1.1			1.1
AVG lyr grd -H/Kft			62	l		71	1		58	l		57	l		61
AVG lyr base Kft	ł		3.7	I		5.8	i		2.1	i		3.2	ļ		3.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCC	URRENCE	YE	ARLY	r	J	AH-M	RR	A	PR-J	UN	J	JL-8	EP	01	CT-DI	EC
		day	nıt	d\$n	day	nit	dan	day	១១៩	dan	day	กเร	d&r	day	nit	d&n
8 to 18	Feet	15	15	15	16	9	10	19	22	21	19	17	18	13	11	i2
10 to 20	Feet	26	25	26	29	28	28	29	31	36	24	23	23	21	28	20
20 to 38	Feet	29	_31	30	36	39	38	28	26	27	24	26	25	27	33	36
30 to 40	Feet	18	20	19	18	21	20	14	13	13	17	28	15	22	25	24
40 to 50	Fee:	6	5	5	4	3	3	3	2	2	7	7	7	18	7	9
50 to 60	Feet	2	1	2	_1	<u> </u>	1	1	1	1	3	2	3	- 4	_ 2	3
60 to 70	Feet	1	9	1	8	9	- 0	ì	1	1	1	1	1	1	e	1
70 to 80	Feet	1	0	0	8	8	6	:	1	1	1	0	Ð	1	8	0
80 to 90	Feet	0	e	8	8	0	9	1		0	0	. 8	8	e	9	8
90 to 100	Feet	0	9	0	8	6	Ð	0	ī	1	9	8	8	9	Ð	9
above 188	Feel	3	2	2	1	8	0	4	4	4	4	2	3	2	8	1
Hean heigh	t Feet	27	25	26	53	23	23	27	25	25	30	27	28	29	25	27

PARAMETER	YE	RLY	7	Ji	111-M	AP	95	F-J	UH	JL	L-Si	P	0	CT-DI	EC
	day	311	dtn	day	nit	d&n	day	210	dån	day	nit	den	day	nit	din
% occur EL&SB dcts			0			0			9	i		8			0
% occur 2+ EL dcts			6			9	į		9	ŀ		6	l		•
AVG station N	l		318			311			320	i		326	İ		313
AVG station -H/Kft	ł		12	i		11			12	l		13			12
AVG sfc wind Kts	13	17	18	28	28	20	15	14	14	15	15	15	21	21	21

Specified location: 63 42 N 9 25 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 1241 63 42 N 9 25 E

Radiosonde source: 1241 63 42 N 9 25 Radiosonde station height: 33 Feet

Surface obs source: MS252 65 00 H 5 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESH/COM RANGES

PERCENT O	CCOKKENCE	טר ב	<u>инни</u>	CFD :	SUKE	HLE-	10-20	JKFH	CE KI	HUHK	<u>/ESR</u>	<u> / CUn</u>	KHN	<u> 625:</u>		
FREQ	UENCY	Ţ ¬	EARL	Y	J	คห-หเ	RR:	R	PR-JI	UN	J	UL-S	EP	1	CT-D!	EC
		day	nit	d&n	day	กาเ	d£n	day	nit	dan	day	nit	d&n	day	nit	din
189	HHz	\Box	9	9	8	3	8	e	9	8	8	0	0	0	8	0
1	GNz	1 3	3 2	3	1	1	1	4	5	5	5	3	4	2	1	1
_ 3	GHz	1_4	3	3	_ 1	1	1	- 6	6	6	6	4	5	2	ĭ	1
6	GHz	1	5	6	7	1	2	9	9	9	11	7	9	8	3	-6
10	GHz	31	29	39	24	25	24	25	23	24	35	34	34	40	35	38
28	GHz	59	60	69	69	64	62	53	49	51	58	68	59	€6	68	67

SURFACE BASED DUCT SUMMARY:

POKENCE RHPER ROC! :	DUNNAKY.													
PARAMETER	YEARL	.Ÿ	J	AXI-MI	R.	A	PR-J!	UN	31	JL-SI	P	0	CT-D	EC
	day nit	din	day	nıt	dir.	day	fit	din	day	nit	d£n	day	nit	din
Percent occurrence	1 2	1	6	1	1	~	2	2	3	2	3	8	1	1
AVG thickness Kft		.22	ł		.23			. 18			. 25			.23
AVG trap freq GHz	Ì	1.2	Ĭ		. 68			1.3			1.5			1.4
AVG lyr grd -N/Kft		145			84			113			227			158

ELEVATED DUCT SUMMARY:

EFFARIED DOCT SOUWH	er:														
PARAMETER	YEF	RLY	,	31	AN-M	AR	AF	R-JI	UN	J	JL-SI	EP	0	CT-DI	EC
	day r	111	d&n	day	nit	din	day	nit	d&n	day	nit	den	day	nit	ರಹಿಣ
Percent occurrence	1	2	1	1	0	1	2	2	2	1	3	2	1	1	1
AVG top ht Kft			4.9			8.9	1		3.5	1		4.1	1		3.0
AVG thickness Kft			.26		_	. 24	i		. 25	i		. 26			.31
HVG trap freq GHz			1.1			1.0			1.5	I		1.0			. RS
AVG lyr grd -N/Kft	ŀ		63	ł		66	l		56	1		52			69
AVG lyr base Ift			4.7			8.8			3.4	L		3.6	L		2.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

EVAPORAT.																	
PERCENT	OCCI	JRRENCE	YE	SRL	ľ	J	AN-M	RR	Ei ei	PR-31	uh	J	ひしっち	EP	į o	CT-DI	EC
L			day	nit	din	day	nit	dèn	day	nit	din	day	ກາເ	dto	day	m11	din
8 10	10	Feet	15	15	15	18	9	16	19	22	21	19	17	18	13	11	12
10 10	28	Feet	26	25	26	29	29	28	29	31	36	24	23	23	21	28	28
28 10	39	Feet	59	31	38	36	39	38	28	26	27	24	26	25	27	33	39
30 to	40	Feet	18	23	19	18	21	20	14	13	13	17	28	19	22	25	24
40 10	50	Feet	6	5	5	4	3	3	3	2	2	7	7	7	19	7	è
50 to	58	Feet	2	1	2	1	9	1	_ 1	1	1	3	2	3	. 4	2	3
60 15	78	Feet	:	£	1	0	8	e	1	1	1	1	1	1	1	8	1
70 to	88	Feet	1	8	9	9	8	8	1	٤	1	1	8	e	! 1	8	9
88 10	98	Feet_	. 0	3	_8	a	. 8	3	_ 1	\$	8	_ 8	8	8	8		. 0
90 10	100	Feet	0	_ 3	8	8	6	9	8	1	1	0	Ø	8	1 8	9	9
above	188	Feet	3	2	2	1	9	9	4	4	4	4	2	3	2	8	1
Mean h	e i ghi	Feet	27	25	26	23	23	23	27	25	26	38	27	28	29	25	27

PARAMETER	YEARLY	JAH-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day n:1 der	day nit dan	day nit den	day nit den	day nit dan
% occur EL&SB dcts		3	0	0	8
% occur 2+ EL dcts		6	9	8	0
AVG station N	318	312	319	327	313
AVG station -N/Kft	1:	12	12	13	12
AVG sfc uind Ets	18 17 18	28 28 28	15 14 14	15 15 15	21 21 21

Specified location: 70 55 N 8 40 W (*) INDICATES INSUFFICIENT DATA Radiozonde source: 1881 78 55 N 8 48 W

Radiosonde station height: 30 Feet Surface obs source: MS217 65 00 H 5 90 H

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES

PERCENT !	OCCORMENCE	<u> </u>	HHM	נבטי	SUMP	HLE-	.0-20				. E 2 L	LUM	KUMI			
FRE	DUENCY	YE	ARL'	Y	J	HI-H	RR	AF	マネージし	JH	- 31	JL-SE	EP	C	CT-D	EC -
l		day	nit	d&n	day	nit	din	day	nit	đěn	day	mit	din	day	nit	dan
100	HHz	9	9	8	•	*		0	9	Ð	θ	6	U	7	*	Ŧ
1	GHz	4	3	4		¥	*	3	2	2	5	4	5	4	•	*
3	GHZ	5	4	4	÷	*	*	3	2	3	6	5	- 6		4	*
6	GH≈	8	6	7	+	+	+	6	5	5	10	8	9	+	•	+
19	GHz	21	19	28	+	+	#	18	15	17	25	23	24	+	÷	÷
20	GH=	42	40	41	∗	*	*	41	39	49	42	42	42	l ±	*	*

SUPFACE BASED DUCT SUMMARY:

PARAHETER	Y	APL.	Y	J	AN-N	AR.	A	R-J	UN	11	JL-SI	ΕP	01	CT-DI	EC
	day	r, 1 *	d≩n	day	nit	dan	day	nit	din	day	nit	dan	day	nit	dan
Percent occurrence	1	1	1	8	8	8	1	1	1	1	1	1	8	. 0	ē
AVG thickness Kft			.23			#	1		. 17	i		.39	ł		
AVG trap freq GHz	l		3.5	İ		*			4.3	i		2.8	l		•
AVG lyr grd -H/Kft			106			*			139			72	İ		#

ELEVATED DUCT SUMMARY:

PARAHETER	Y	EARL'	Y	J	M-HR	3R	RF	R-J	NU	31	JL-SI	EΡ	00	T-DE	EC
	day	nit	dtn	day	nıt	din	day	nit	dan	day	nit	d&+-	day	กรร	dån
Percent occurrence	2	2	2	1	1	1	2	i	2	2	4	3	1	9	1
AVS top ht Kft			3.7	į		3.4	1		2.5			3,9	l		5.0
AVG thickness Kft			. 23	i	_	.21	L		.24		_	.27	<u>i</u>		.20
AVG trap freq GHZ			1.€			1.3	<u> </u>		1.7			1.3			2.6
AY' iyr grd -R/Kft	l		58	İ		61	l		59			52	i		62
AVG lur base lit	l		3.5	ì		3.2	ł		2.3			3.7	L		4.9

EVAPORATION DUCT HISTOCRAN IN PERCENT GCCURRENCE:

PERCENT	OCC	URRENCE	76	AKLI	ì	31	m-M	₹R	Ri	2 - JI	И	J	JL-S	P	C	T-B	C
			dau	nit	ರಕ್ಷಣ	day	212	din	day	011	dir.	day	n11	450	day	nit	den
8 to	10	Feet	25	24	24	16	16	16	28	28	28	33	32	33	23	22	21
18 to	56	Feet	27	32	38	27	36	32	30	34	32	24	27	26	28	30	29
20 10	30	Fest	26	26	26	33	32	32	23	24	24	18	19	19	28	_ 28	28
36 to	40	Feet	14	11	12	17	12	14	11	7	9	11	11	11	15	14	15
48 to	50	Feet	3	3	3	3	2	2	2	3	2	1 4	4	4	4	3	4
58 to	68	Feet	1	1	1	1	- 3	1_	1_	2	1	2	2	2	2	1	2
60 to	7¢	Feet	1	8	9	0	0	9	1	છે	0	1	1	<u> </u>	1	9	0
70 : 0	89	Feet	0	9	8	9	ē	0	1	1	1	8	0	9		8	- 6
88 10	90	Feet	0	9	8	e	. 0	9	8	- 0	9	0	8	0	0	. 0	0
90 to	100	Feet	8	9	9	Ü	0	6	0	- 6	0	8	1	9	9	- 6	0
≥pove	100	Feet	3	2	2	2	1	1	2	2	2	5	4	4	2	1	2
Hean he	1 gh	t Feet	24	21	23	24	21	23	22	19	21	26	24	25	23	20	22

PARAMETER	1 48	ERRL'	Y	J	คห-ห	AR .	អ្ន	P-31	เห	Ju	IL-5!	EP :	00	T-DI	EC
	dav	nit	din	day	ntt	dzn	day	nıt	den	day	r 1 2	den	day	nit	din
% occur EL&S& dcts			9			ਚੋ			6			Ð	1		0
% occur 2+ EL dcts	ĺ		9	l		8	l		8			8:			8
RYG s'ation N	ĺ		314			311	l		315			318	l		3:1
AVG station -N/Kft	1		12			12	Ī		12			12	i		11
AVG afc wind Kis	18	18	18	21	29	21	16	15	16	14	14	14	22	21	22

Specified location: 76 46 N 18 46 H (*) INDICATES INSUFFICIENT DATA Radiosonde source : 4328 76 46 N 18 46 H

Radiosonde station height: 45 Feet

Surface obs source: #8218 65 88 H 15 88 H

PERCENI OCCORREGLE	טר בו	HHHI	נבט:	SUFF	HLE-	0-20	1K - W	LE K	אמעוי	<u> </u>	LOU	KPIN	3E5:		
FREQUENCY	Y	ERRL'	Y	J	AH-HE	R	Al	R-JI	JH.	31	JL-SI	EP	00	CT-DE	C
	day	nit	din	day	nit	din	day	nit	d&n	day	nit	d&n	day	nit	den
198 KHz	6	0	8	8	8	8	9	9	6	9	6	8	9	8	0
1 GH2	3	1	2	e	8	8	5	3	4	6	2	4	2	1	1
3 GHz	4	1	3	_1_	0	8	5	3	4	8	2	5	2	1_	1
6 GHz	7	4	5	4	2	3	8	5	6	12	6	9	5	3	4
18 GHz	26	21	23	24	16	23	26	24	25	28	21	24	27	21	24
20 GHz	49	44	46	j 52	48	46	48	52	59	45	37	41	58	45	48

CHIPFACE BASER BUCT SHEKARY.

SUPPRICE BROKE SOCI S	OTHER !													
PARAMETER	YEARLY	,	38	H-MF	₹P	AF	R-JI	JH	J	JL-SI	P	C	CT-DI	EC
	day nit	din	day	nit	dtn	day	nit	d&n	day	nit	d&n	day	nit	dan
Percent occurrence	1 8	8	8	8		9	9	8	1	8	_ 1	_ 1	8	1
AVG thickness Kft		.26	ł		.58	i		.17	l		.12			.18
AVG trap freq GHz		2.0	l		.26	l		2.3	Į.		2.1	1		3.4
AVG lyr grd -N/Kft		144	<u> </u>		63	L		189	L		112	L		292

ELEVATED BUCT SUMMARY:

PARAMETER	Y	EARL'	Y	J	AN-M	R.	£1	R-J	JN	31	JL-SI	EF	O	CT-DI	EC
	day	nit	dŁn	day	nit	dŧn	day	nit	dan	day	nit	dkn	day	nit	din
Percent occurrence	1	1	1	8	1	1	1	1	1	1	1	1	8	8	0
AVG top ht Kft			1.5	ł		.36			2.1			3.2	1		.44
AVG thickness Kft			.18			.28		_	.17	_		. 15	L.		.20
AVG trap freq GHz			1.5			.78			2.4			2.3			.61
AVG lyr grd -N/Kft			114	i		101	ĺ		65			69			218
AVG lyr base Kft			1.5			.29	_		2.8			3.1			. 40

EVAPORATION DUCT KISTOSPPM IN PERCENT OCCURRENCE:

PERCENT OCCUP	RENCE	YE	ARI,	,	31	111-46	ĀR	A	オーチャ	JИ	3	JL-51	P	00	T-DE	EC
	i	day	ខារ	dtn	day	nit	den	day	nit	den	day	nit	d&n	day	nit	dan
8 to 18 F	eet	26	29	28	19	32	25	25	22	24	34	36	35	26	28	2.
10 to 20 F	561	25	27	26	38	28	29	26	26	26	22	26	24	24	28	26
28 to 38 F	ee:	23	23	23	58	24	26	22	28	25	17	17	17	24	23	24
38 to 48 F	eet	14	13	14	17	1:	14	14	:6	15	11	11	11	1.5	14	:5
48 to 58 F	ee:	5	4	4	3	4	3	5	4	4	5	4	4	5	4	3
58 to 60 F	eet	2	1	2	2	1	1	_ 2	0	1	3	_3	3	1_1_	1	1
60 to 78 f	299	1	1	1	1	8	Ð	1	1	1	1	1	1	1	8	9
70 to 80 F	eet	8	0	8	1	9	0	θ	8	9	1	1	1	6	3	ņ
80 to 90 F	eet	8	0	9	. 9	_ 8	0	_ 9	0	3	1	. 8	8	0	0	θ
90 to 100 F	eet	- 8	6	9	ិ៍	8	θ	8	e	Ø	8	Ü	9	ð	8	8
above 188 F	eet	3	1	2	8	9	8	5	3	4	6	2	4	1	1	1
Rean height	Feet	24	28	22	21	13	28	27	24	25	28	20	24	22	28	21

GENEWAY WELFOLDEDAY															
PARAMETER	Y	RRL	7	3	RH-M	AR	AF	R-J	UN	3	UL-SI	EP	O	CT-D	EC
	day	nıt	din	day	nit	dŁn	day	nit	d&n	day	nit	đin	day	១16	ರಾತಿ
% occur EL&S\$ dcts			8			6			9			9	-		9
% occur 2+ EL dcts			9	i		6	•		0			6			е
AVG station N	į		316	ļ		320	1		314			312	l		316
RVG station -N/Kft			13	}		13	1		12			12	j		13
AVG sfc uind Yts	19	19	19	24	23	24	_17	17	17	14	14	14	21	21	21

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

Specified location: 70 25 N 21 58 N Radiosonde source : 4340 70 25 N 21 58 H

Radiosonde station height: ?2 Feet

Surface obs source: MS219 65 00 N 25 08 H

DEDCENT OCCUPATION OF ENGINEER CHARGET TO CHARGE SARAP FOR CON DANCES

PERCENT 1	DECOMPERCE	UP 61	nnnn	LED	JURF	4CE-	0-51	JR F 71	"	ייועיי	E 311	CON	FAA	35		
FRE	DUENCY	Y	EARL'	Y	J	AN-MA	18	ลเ	PR-JI	JH	Ji	JL-SI	P	- 01	CT-DI	EC
<u> </u>		day	nit	dŧn	day	nit	dan	day	nıt	din	day	nit	din	day	nit	dŧn
199	HHz	9	8	9	9	છ	8	8	ਚ	8	0	8	0	6	0	8
1	GHz	3	49	26	2	2	2	4	186	95	7	Ş	6	1	1	1
3	GH2	5	72	38	3	3	3	5	276	146	8	7	8	j 2	1	. 1
6	GHz	7	108	58	5	6	- 5	8	413	218	11	11	11	4	2	3
10	GHz	27	145	86	27	18	23	22	514	268	24	28	26	35	28	28
28	GH2	53	181	117	68	41	59	43	588	311	41	58	46	69	51	68

(*) INDICATES INSUFFICIENT DATA

SURENCE BUSED DOCT ?	UMAR	RY:													
PARAMETER	Ϋ́E	ARL	7	JI	RH-M	RR	Al	PR-J	UH	3	JL-SI	EP	0	CT-DI	EC
	day	nıt	den	day	nıt	dên	day	nit	dên	day	nıt	d&n	day	การ	d\$≲
Percent occurrence	2	3	2	4	4	4	8	1	1	2	_ 4	3	1	1	1
AVG thickness Kft	1		.19	i		.24			.13			. 25	Ì		.13
AVG trap freq GHz			1.9	i		1.9	l		2.3			1.4	l		2.1
AVG lur grd -N/Vft	i		105	<u> </u>		132			93			105	L		91

PARAHETER	Y	EARL'	Y	J	AH-H	RR	A!	PR-J	UH	31	UL-S	EP	91	CT-DE	EC
	day	nit	d&n	day	nit	dan	day	nıt	d&n	day	nit	din	Jay	n11	d£n
Percent occurrence	1	1	1	1	1	1	2	2	2	1	2	2	1	0	1
AVG top ht Kft			2.6			3.7	1		.86	l		. 45	l		5.2
AVG thickness Yft			. 14	l		.12	1		. 28	1		. 16	l		. 10
AVG trap freq GHz			2.3			2.3			1.5			2.3			3.7
AVG lyr grd -H/Kft			62	l		75	l		54	l		56	l		52
AVG lyr base Yft			2.5	ŧ		3.7	i f		.71	l		.33	1		5.1

EVAPORATION DUCT HISTOCRAM IN PERCENT OCCURRENCE:

PERCENT O	CCURRENCE	YE	BRLY	r	J!	ลห-พ	45	AF	-X-1i	jH	31	JL-S	P	90	T-DE	C
		day	nit	d&n	Gay	n12	ರಹಿಗ	day	nit	den	day	nit	d&n	Cay	nit	136
8 to 1	0 Feet	23	31	27	16	25	21	26	69	43	35	23	29	13	17	15
10 to 2	0 Feet	25	41	33	26	37	31	31	68	49	25	28	26	19	32	25
20 10 3	8 Feet	26	36	31	33	24	28	21	67	44	17	23	28	34	31	33
30 to 4	0 Feet	16	23	19	17	19	14	11	54	32	10	13	11	26	15	20
48 to 5	0 Feet	4	15	9	5	2	3	3	48	26	3	5	4	5	3	4
_ 50 to 6	0 Feet	2	13	7	_ 2	_ 1	1	2	47	_24	2	2	2	2	í	1
50 to 7	B Feet	e	12	6	8	8	9	Θ	46	23	1	Ø	1	1	8	8
70 to 8	8 Feet	! 6	12	- 6	0	1	છ	1	45	23	1	1	1	8	8	6
_ 80 10 9	G Faet	1	12	6	_ 1_		9	1	45	23	. 0	;	Ü	8	9	9
98 to 1	00 Feet	0	12	6	0	8	0	1	45	23	0	î	- T	9	0	9
above 1	100 Feet	3	48	25	8	1	1	4	186	95	6	4	5	1	0	1
Hean hes	ghr Feet	25	34	30	23	19	21	25	71	48	26	27	26	26	21	23

PARAMETER	Y	APL'	7	36	ah-M	RR .	AF	5 <u>6</u> -16	JH	31	JL-SE	P	0	7-21	EC
	CAV	nit	den	day	211	đEn	day	:11 \$	din	day	nit	dan	day	nit	din
% occur EL&SB dcts			8			9			9			e			8
% occur 2+ EL dcts			8			0	1		9	ł		9	ļ		6
ANG station H	1		314	,		315	l		314	j		314	1		311
AVG station -N/kft			13			13	[13	(12	(12
AVG sfc wind kts	19	18	19	24	22	2		16	16	14	14	14	22	21	22

Specified location: 70 30 N 68 36 W (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 74098 70 36 N 68 36 N

Radiosonde station height: 7 Feet Surface obs source: MS220 65 88 N 35 88 H

PEPCENT OCCURPENCE OF ENHANCED SURFACE-TO-SURFACE RADAR 'ESH COM RANGES:

FACESS C	ACCONFERE .	Ur E.	1111111111		JURF	nce-	10-30	JEFER		Thur	E 211	COL	E LINE	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		
FREC	LENCY	Y	ERRL	Y	J	คห-ห	AR	Al	PR-JI	JH	31	UL-SI	EP	0	CT-D	EC
		day	nit	ď2n	day	nit	dŧn	day	nıt	dŧn	day	រាវេ	d&n	day	nit	dan
188	MHZ	0	9	0	*	#	+	0	8	0	0	- 0	0	*	+	*
1	GHz	; 3	2	3			•	3	2	2	6	2	4	*	*	*
3	CHz	6	2	4		•		4	_ 2	3	8	2	_ 5	*	_ #	*
6	GHZ	9	4	6		4	+	6	4	5	11	3	7	*	4	+
18	GHz	24	19	21		*		18	15	17	29	22	26	*	*	+
20	GHZ	44	45	45	i +	*	+	41	43	42	48	48	48	*		*

SUPPRIE BASED BUCK SUNMARY.

PARAMETER	Y	EARL	7	71	RH-M	RR	AI	PR-JI	אנ	7	JĽ-SI	P	00	CT-D	EC
	day	BIL	d&n	day	nit	dan	day	nit	d&n	day	nit	d&n	day	nıt	den
Percent accurrence	1	8	8	0	9	9	. 6	0	0	2		1	Θ	9	8
RVG thickness Kft			.20	1		•	l		. 28	ŀ		.21	ĺ		
AVG trap freq GHz	ĺ		2.7	i		*	l		3.8			1.5			*
AVG lyr and -N/Kft	i		100	Į		*	l		180			188	ļ		+

FYATED DUCT SUNMAPY:

PARAMETER	Y.	BRL	Y	J	AH-H	RR	R	-R-1	บห	J	JL-SI	EP	01	CT-D	EÇ
	day	nit	ಡೆಓಣ	day	nit	dan	day	nit	din	day	nit	dŁn	day	nit	dan
Percent occurrence	1	2	1	е	- 3	0	1	1	1	4	4	4	0	1	1
AVG top nt kft			3.2			. 39	l		3.1	ļ		4.6	ļ		4.5
AVG thickness Wft			. 13	L		. 67			.16	L		.18	L		.12
RVG trap freq SH≥			4.1			7.4			2.6			2.8			3.5
AVG lyr grd -N/Kf1			57			48	l		67	l		54			59
AVG tyr base Kft			3.1	l		. 32	l		3.0	i		4.4	1		4.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PERCENT	OCCI	IRRENCE	78	ARL	7	31	AN-M	52	A	2K-11	Jhi	JI	UL-SE	P	OC.	T-DE	C
			day	nit	d&n	day	2110	den	day	ភារដ	din	day	nit	d&n	day	nıt	din
8 to	10	Feet	24	22	23	20	28	28	29	27	28	29	25	27	17	16	17
10 10	28	Feet	27	27	27	38	38	38	3:	30	31	24	27	26	24	20	22
28 10	38	Fest	26	38	28	33	34	33	53	28	25	19	26	22	30	33	32
30 to	48	Fees	14	15	14	13	14	13	9	9	ė	13	16	15	20	22	21
40 10	58	Feet	4	3	3	3	1	2	3	2	2	5	3	4	5	6	5
50 10	60	Feel	1	1	1	9	8	8	1	_ 1	1	2	1_	1	2	_ 2	2
60 10	79	Feet	- 1	9	0	8	G	0	1	1	1	1	9	1	0	8	0
78 to	80	Feet	8	9	9	8	8	8	8	1	8	1	6	9	8	0	0
60 + 0	23	Feet	_ 8_	0	8	0	3		3	. 8		1 1	•	8	<u> </u>	_ 0	0
38 10	1130	Feel	0	0	9	0	ē	9	0	•	0	1	0	0	0	9	. 0
2004	11 1500	Feet	3	1	2	1	i	1	3	2	2	5	2	4	1	1	1
Mean 4	٠٠ : ٢١١	Feet	23	21	22	21	28	20	22	28	21	27	22	24	24	24	24

YEA	RLY	26	RH-HE	4P	AF	R-31	JH.	Jι	ルーSE	P	90	T-DE	EC
day n	iii den	da	r 1 f	din	day	กรร	din	day	nit	din	day	n:1	GZ:
	0			8			8			9		_	9
ł	9			9	i		8			8			C
i	315			328			313			314			314
l	12	ì		12	ŀ		12			12			12
18	18 18	21	22	22	16	16	16	13	15	14	21	21	21
	dav r	0 0 315 12	day nit den dar- 0 0 315 12	day nit dtn dau rit 0 6 315 12	day not dan dan rot dan 0	day nil din day ril din day 0	day nit den day rit den day nit 0 0 0 0 0 315 320 12 12	day not day day not day	day nit dtn day rit dtn day nit dtn day 0	day nit dtn day rit dtn day nit dtn day nit 0	day not day day not	day nit dtn day rit dtn day nit dtn day	day nit dtn day rit dtn day nit dtn day

Specified location: 76 31 N 68 49 N (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 4202 76 31 N 68 49 N

Radiosonde station height: 98 Feet

Surface obs source: MS220 65 80 H 35 88 H

PERCENT CCCURPENCE OF ENHANCED SUPFRCE-TO-SURFACE RADAR ESM COM PANGES:

FREQUENCY	Y	EARL'	Y	31	RH-M!	R.	AI	PR-JI	JH	31	JL-SI	P	O.	CT-DE	C
	day	กาเ	dtn	day	nit	dån	day	nit	dèn	day	nit	d&n	day	nit	dêr
100 nHz	8	0	0	0	9	6	0	0	0	0	9	Θ	8	8	9
1 GHz	3	2	3	2	2	2	4	2	3	6	3	4	2	1	1
3 GHz	4	2	3	3	3	_ 3	4	_ 3	3	7	3	5	2	. 1	1
6 GHz	6	4	5	3	4	4	7	6	6	11	5	8	5	3	4
10 GHz	24	22	23	19	19	19	19	16	18	28	23	26	29	30	38
28 GHz	50	52	51	51	52	52	41	43	42	47	49	48	59	64	61

SUPFACE BASED DUCT SUMMARY:

SUPPRICE BUSED DUCT	SUMMERY:			_										
PARAMETER	YEARL	′	J1	AN-M	₹R	AI	P-J	אט	30	UL-SI	ΕP	3	CT-DI	EC
	day nit	din	day	nıt	dan	day	nıt	dan	day	ni t	dtr	day	mit	din
Percent occurrence	2 2	2	3	4	4	1	2	2	1	2	2	1	1	1
AVG thickness Kft	l	.13	1		. 18	Ì		.1:	ł		.12			.09
AVG trap freq GHz		3.0	ĺ		2.5			2.1			2.5			5.0
AVE lyr grd -N/Kft	<u> </u>	166			166			102			166			23:

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL	Y	31	Ait-H	AR	AI	7R-JI	UH	JU	JL-SI	EP	01	CT-D!	C
	day	ntt	atn	day	011	den	day	n:t	a‡n	day	nit	d£n	day	n11	₫₽n
Percent occurrence	1	2	2	0	1	1	1	3	2	3	2	3	1	2	2
AVG top ht Kft	İ		2.6	!		1.0			2.5	1		4.2	1		2.7
AVG thickness Kft			. 17	i		.16	1		. 15	ļ		.19	į		.16
AVG trap freq GHz			2.1			1.9			2.2			1.9	1-		2.5
AVG lyr grd -N/Kft			59	l		71	i		56	1		54	l		53
AVG lyr base Kft			2.5	}		.88	ļ		2.4	ĺ		4.0	l		2.6

EVAPORATION DUCT HISTOGRAM IN PEPCENT OCCURPENCE:

PERCENT OCCURRE	CE Y	EARL'	Y	J	H-HE	AR	A	PR-J	JH	J	JL-SI	EΡ	00	CT-DE	EC
	day	กาเ	ರಕ್	dau	nit	d&n	day	nit	d&n	day	mit	den	da	nit	d\$n
e to 10 Feet	24	22	23	28	20	20	29	27	28	29	25	27	17	16	17
10 to 20 Feet	27	27	27	39	30	30	31	38	31	24	27	26	24	20	22
20 to 30 Feet	26	36	28	33	34	33	23	2₹	25	19	26	22	30	33	_32
30 to 40 Fee	14	15	14	13	14	13	9	9	•	13	16	15	20	22	51
40 to 50 Feet	4	3	3	3	1	2	3	2	2	5		4	5	S	5
50 to 50 Feet	1_1	1	1	8	9	0	_ 1	1	1	2	1	1	2	2	2
60 to 70 Fee	1	0	8	0	9	6	1	1	1	1	Ð	1	0	0	9
70 to 30 Fee	8	e	0	0	3	6	e	1	0	1	9	8	9	9	8
80 to 90 Fee	0	0	Ú	e	0	0	е	9	Ø	1	8	0	0	8	9
98 to 188 Fee	0	- 0	- 8	8	9	- 0	6	0	9	1	0	Θ	0	8	0
above 188 Feet	3	1	2	1	1	1	3	2	2	5	2	4	1	1	1
Hean height Fe	t 23	21	22	21	20	28	22	20	21	27	22	24	24	24	24

I

PARAHETEP	YEARLY	Jan-Har	app-jun	JUL-SEP	OCT-DEC
	dau nit din	day n:: din	dau nit dön	day nit din	day niz den
% occur EL&SB dcts	9	9	3	8	8
% occur 2+ EL dets!	8	а	Ú	8	8
AVG station H	311	317	308	306	311
AVG station -h/Fft	11	13	11	11	11
AUG sic wind I'ts	18 18 18	21 22 22	16 16 16	13 15 14	21 21 21

Specified location: 74 43 N 94 58 N (*) INDICATES INSUFFICIENT DATA Radiosonde source: 72924 74 43 N 94 58 N

Radiosonde station height: 125 Feet

Surface obs source: MS220 65 60 N 35 00 N

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE BADAR/ESM/COM RANGES

PERCENT C	ICCORRENCE	UF E1	HHHH	EB	SURFI	KCF-	<u>10-St</u>	JKFH	CE_KI	אאטוי.	F2W	/CON	KHH	ES:		
FRES	LUENCY	Y	EARL	7	Ji	BH-M	R.	B	アニノリ	JH	7	UL-SI	ΕP	ŏ	CT-DE	C
		day	nit	d&n	day	nit	dŧn	Say	nit	din	day	nit	din	day	nit	dån
169	MHz	9	9	Ð	9	9	8	0	9	9	0	0	. 6	8	0	0
1	GHz	3	2	2	1	1	1	4	2	3	6	3	4	2	1	1
3	GHz	4	2	3	1	1	_1	4	2	3	7	3	5	2	1	1
6	GHZ	6	4	5	2	1	2	7	5	5	111	5	8	5	3	4
18	GHZ	23	22	23	17	17	17	19	16	17	28	24	26	29	38	39
28	GHZ	58	52	51	58	. 59	58	41	43	42	_47	49	48	59	_ G4	_61

SURFACE BASED DUCT SURHARY:

SCKLUCK BUSED DOC	Jointax				
PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit din	day nit din	day nit dan	day nit dan	day nit din
Percent occurren	e 1 1 1	1 0 1	1 1 1	1 2 2	1 1 1
AVG thickness Kf	.16	.16	.16	.23	.10
RVG trap freq GH:	3,7	4.8	4.1	1.2	4.6
AVG lyr grd -N/K	189	117	145	84	88

ELEVATED DUCT SUNHARY:

PARAMETER	Y	EARL'	*	3	RN-M	AR	R	PR-J1	JH .	31	JL-Si	P	- 60	T-DE	EC
	day	nit	dan	day.	nit	den	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	1	1	1	2	. 2	- 2	5	5	- 5	1	1	Ī
AVG top ht Kft	ŀ		2.8	ı		.91			2.7			3.8	i		.54
AVG thickness Kft	L		. 19			.21			.21			.21	l		.11
AVG trap freq GHz			2.8			1.3			.91			1.5			4.1
RVG lyr grd -N/Kft	1		€4			73			61			68	i		61
AVG lyr base Kft	ī		1.9	l		.79			2.6	•		3.6	i		.56

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

			00C1 H13		KHN .	IN P	KLE	NI UI	-CU21	KENICE	<u>: </u>							
PERCE	HT	OCC	URRENCE	YI	EARL	r		RN-MI	ar -	A)	R-J	JH	Jı	JL-SI	EP	00	T-DE	C
	_			day	nit	dŁn	day	nit	d&n	day	nit	din	day	nit	din	day	rit	den
9	10	10	Feet	24	22	23	29	28	20	29	27	28	29	25	27	17	16	17
10	to	20	Feet	27	27	27	39	38	38	31	30	31	24	27	26	24	20	22
20	10	36	Feet	26	30	28	33	34	33	23	53	25	13	26	22	30	33	32
30	10	40	Feet	14	15	:4	13	14	13	9	9	9	13	15	18	20	22	21
40	10	58	Feet	4	3	3	3	1	2	3	2	2	5	3	4	5	6	5
59	to	69	Feet	_ 1	1	1	8	- 8	_ 3	i	1	1	2	1	1	2	2	_ 2
50	to	78	Feet	1	8	0	8	8	8	1	1	1	1	9	1	0	0	Ø
70	to	86	Feet	છ	0	9	9	8	9	8	1	8	1	9	9	0	е	ø
98	to	S-3	Feet	_ e	8	8	9	8	e	8	9	8	1	. 3	8	8	9	9
99	to	108	Feet	8	8	9	9	9	8	0	8	0	1	8	6	8	8	0
abo	ove.	100	Feet	3	1	2	1	1	1	3	2	2	5	2	4	1	1	:
Mear	n h	e i ghi	i Feet	23	21	22	21	28	20	22	28	21	27	22	24	24	24	24

PARAMETER	YEARL	<u>r</u>	JF	R-HA	R	AF	R-J:	JH	Ji	JL-SE	P	Ot	T-B	C
	day nit	ain	day	r.11	dŁn	σay	nit	der.	day	nit	dan	day	nit	dan
% occur EL&SB dcts		C			6			0			9			В
% occur 2+ EL dcts		9	į .		9			8			8			8
AVG station !!		318	•		326			314	i		313			319
AVG station -N/Kft		13	i		15			13	ļ .		12			13
AVG SEC wind Kis	18 18	18	21	22	22	16	16	16	13	15	14	21	21	21

HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 78 46 N 103 31 H (*) INDICATES INSUFFICIENT DATA 78 46 N 103 31 W

Radiosonde source : 74874

Radiosonde station height: 89 Feet

IREPS REV 2.1

Surface obs source: MS220 65 00 N 35 00 H

PERCENT OCCUPPENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESH COM PANGES:

FREQUEN	CY	YEARL	Y.	J	an-Ma	iR.	A F	マネーズし	JH.	JL	JL-SE	P	0	CT-DE	EC
	da	y niż	d&n	day	777	đ≵n	day	nıt	d&n	da	71.7 E	d&n	day	nit	den
180 MHz		0 8	0	8	9	8	е	8	8	9	9	6	9	3	Ø
1 GHz	i	3 2	2	1	1	1	4	2	3	Б	3	4	1	1	1
3 GHz	į	4 2	3	2	2	2	5	2	3	7	3	5	1	1	1
6 GHz		6 4	5	2	3	3	7	5	6	11	4	7	4	3	4
19 GHz	2	4 22	23	18	18	18	19	16	18	28	23	26	29	38	38
20 GHz	1 5	0 52	51	50	51	51	42	43	42	47	49	48	59	64	61

SORPHICE BUSED DOCT	SUMHHPY:													
PARAMETER	YEARL'	Y	3	ลห-๓เ	18	R!	PR-J	UN	31	JL-S!	₽	01	CT-Di	EC
j	day net	d\$n	reay	***	dan	day	7912	d&n	dae	nit	dan	cay	nıı	d&n
Percent occurrence	1 1	1	I	2	2	2	1	2	1	1	1	9	1	1
AVG thickness Kft	İ	. 28	•		. 25	1		. 19	1		.22	1		. 14
AVG trap freq GHz	ł	2.8	1		2.1	1		1.7			:.5	1		2.7
AVG lyr grd -HAKEL	}	149			227	!		192	<u> </u>		149	ì		117

PARAMETER	Y	ERFL	,	3	คน-ท	AR .	R)	2-31	UN	Jŧ	JL-Si	EP	00	CT-D	EC
	day	nit	ゴ をの	day	nit	din	day	nit	din	dau	ntt	din	day	nı t	ರಕ್ಷಣ
Percent occurrence	3	4	3,	1	2	2	4	4	4	5	- 6	6.	2	2	2
AVG top ht Kft			1.9			1.1	l		1.7	1		3.3			1.5
AVG thickness Kft	<u> </u>		. 17			. 15			. 17			. 29			- 17
AVG trap freq GHz			2.0			2.7			1.6			1.3			2.4
AVG lyr grd -N/Kft	İ		55			56	ĺ		55	ł		54	l		55
AVG lur base Kft	i		1.7			.94	i		1.5	İ		3.1	[1.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT OCCUR	RENCE	YE	AR41	,	J	?N-₩	R.	AF	2-JI	써	Ji	JL-S	Р	ຍ	CT-DE	C
		day	210	den	USD	m: t	dsn	day	21.12	C\$12	day	711	den	day	nit	den
@ to 18 F	eet	24	22	23	20	28	28	29	27	28	29	25	27	17	16	17
18 to 20 F	eet	27	27	27	30	39	30	31	38	31	24	27	26	24	28	22
20 to 30 F	zet	26	30	28	33	34	33	23	28	25	19	36	22	38	33	32
30 to 40 F	eet	14	15	14	13	14	13	9	9	÷	13	16	15	29	22	21
-20 to 50 F	eet j	4	3	3	3	1	2	3	2	2	5	3	4	j S	6	5
50 to 60 F	201	1	1	1	0	8	6	1	1	1	2	1	1	2	2	2
60 to 70 F	eet	1	9	8	3	9	3	i	1	1	1	8	1	0	8	0
78 to 89 F	eet	8	Θ	8	8	Ð	9	8	1	9	1	9	9	8	9	8
80 to 90 F	eet	e	e	8	e	е.	0	8	Э	6	1 1	9	8	9	8	Ø
90 to 100 F	eet	ß	0	9	8	Û	6	0	8	e	1	8	8	0	C	в
above 100 F	e+t	3	1	2	1	:	1	3	2	2	5	2	4	1	7	1
Hean Leight	Feet	23	21	22	21	20	20	32	26	21	27	23	24	24	24	24

GEMERAL METEOROLOGY SUNHARY:

PARCHETER	Y	ARL	Ÿ	3	M-119	AR	FAI	R-J	UN	3(JL-S!	ΕP	G	CT-DI	EC
	day	rit	dan	day	nit	din	day	211	den	day	nit	din	day	PIL	den
% occur ELLSE dets			8			8			9			9			Ø
% occur 2+ EL dcts			9			6			6			0			8
AVG station N			321	i		329	l		316			314			323
RVG station -N/Kft			14	l		16	İ		13	Į.		12			14
AVG sfc wind Kts	18	18	18	51	22	22	16	:6	16	13	15	14	21	21	21

Specified location: 76 13 N 119 19 H (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 74072 76 13 N 119 19 W

Radiosonde station height: 180 Feet

Surface obs source: MS193 55 00 N 125 00 H

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESH/COM RANGES:

FREQUENCY	Y	EARL	Υ	J	าห-หก	iR.	Pi	PR-JI	JH.	31	JL-SI	EP	01	CT-BI	EC
	day	nit	dan	day	nit	dan	day	nit	dln	day	nit	džn	day	nit	d&n
100 MHZ	9	6	0	8	9		8	- 0	0	0	8		0	છ	- 6
1 GHz	10	6	8	6	3	5	15	9	12	15	9	12	5	3	4
3 GHz	12	7	18	8	3	. 6	18	11	15	16	12	14	6	3	4
6 GHz	17	11	14	11	6	9	24	16	20	22	16	19	11	7	9
10 GH z	34	26	39	27	20	23	41	29	35	35	28	31	33	27	30
20 GHz	54	48	51	48	43	46	61	55	58	49	45	47	57	48	53

SURFACE BASED DUCT SUMBARY:

PARAMETER	YE	ARL	Y	3	AH-H	R.	AI	R-J	JN	31	JL-SI	P	C	T-D	C
	day	nit	dan	iay	nit	dên	day	nit	den	day	nit	d&n	day	nit	<u>d&n</u>
Percent occurrence	1	8	1	1	0	1	2	1	2	8	- 8	8	1	0	1
AVG thickness Kft	l .		.19			.21			.22			.20			.11
AVG trap freq GHz	l		3.3			2.1	i		1.4	İ		4.6	i		5.7
AVG lyr grd -N/Kft			100	<u> </u>		74	L		103			142	<u> </u>		83

FLEVATED DUCT SUMMARY:

FEEAUTED BOC! SOUGH														_	
PARAMETER	Y	ARL	Y	J	คห-หค	AR	RI	<u>R-J</u> I	JN	J	UL-SI	ΕP	ō	CT-DI	EC
	day	nit	d&n	day	nit	dŧn	day	nit	d&n	day	nit	d&n	day	n <u>it</u>	dŁn
Percent occurrence	2	4	3	1	2	2	2	4	3	5	19	8	1	1	<u>1</u>
AVG top ht Kft	1		2.6	ļ		1.0	l		3.5			3.2	1		2.5
AVG thickness Kft			. 18			. 16			.15	l	_	.26	L		. 14
AVG trap freq GHz	i		2.1			2.9			2.7			.76			2.2
AVG lyr grd -N/Kft	l		62	1		56	Į.		56			65			73
AVG lyr base Kft			2.4	ĺ		.87			3.4			3.0			2.5

EVAPORATION BUCT HISTOCRAM IN PERCENT OCCURRENCE:

EVNPUK	n e	UK	AAE 1 453	<u>, , n in in in</u>	suu i	IN P	- 2 (5)	X + 13;	LUKE	TENUE	• •							
PERCE	HT	1330	JRRENCE	Y	BRL	7	31	AN-ME	R.	AF	R-11	JN:	- 31	UL-SE	P	O.	7-DE	:C
				day	nit	din	day	nit	d&n	day	nıt	ರಹಿಣ	day	rijt	dŁn	day	nit	den
6	ŧ٥	18	Feet	25	26	25	24	23	23	28	19	26	36	33	34	22	27	25
19	to	28	Feet	21	27	24	28	33	31	20	27	23	15	22	18	21	25	23
23	10	30	Fast	26	22	21	22	23	23	28	26	_ 23	14	18	16	24	21	25
30	10	40	Feet	12	10	11	12	10	11	12	9	11	s	8	8	15	15	15
46	to	29	Fee:	Ş	4	5	4	4	4	5	4	5	5	4	4	7	5	6
50	10	ť9	Feet	3	2	2	2	_ 1	2	3	1	. 2	2	2	2	_ 3	2	3
60	to	70	Feet	1	1	1	3	1	1	2	1	- :	1	2	2	1	1	1
76	ŧ0	88	Feet	1	1	1	9	1	1	1	2	2	2	2	2	1	1	1
86	10	98_	Feet	1	1	1	1	3	1	1 1	1	_ 1	_1	2	1	1_	0	
90	10	19C	Feet	1	1	- i	8	8	8	1	1	1	1	1	i	8	G	9
abo	ve	100	Fee:	10	6	8	6	3	4	15	9	12	15	9	12	4	3	4
Hean	h	tight	Feet	36	29	32	29	24	27	45	35	40	41	32	36	29	24	26

PARAMETER	YEARLY		วลห-หล	R	RP	R-JU	JN	Jl	IL-SE	P	00	T-DI	EC
	day nit di	nle	day nit	din	day	nit	din	Jay	nit	ರಕ್ಕಿಗ	day	nit	din
% occur EL&S& dcts		0		9			- 6			8			8
% occur 2+ EL dcts		Θĺ		0			Э			8			8
AVG station N	3:	9		328			314			313			329
AVG station -N/Kft		4		16	i		13			12			14
AVG sec uind kes	15 13	14	17 15	16	14	11	13	11	10	11	18	16	17

IREPS REV 2.

Specified Totation: 71 58 N 125 16 N (*) INDICATES INSUFFICIENT DATE Radiosonde source: 76851 71 58 N 125 15 N

Radiosonde station height: 272 Feet

Surface obs source: MS193 55 80 N 125 80 H

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RODAR/ESH/COM RANGES:

FREQUENCY		EARL'			111-M			PR-JI			JL-SI	_		CT-DE	C
PRECOCNET														nit	
100 MHz	1 0	8	9	8	0	0	8	Ø	9	0	8	0	8	0	Ð
1 GHz	19	6	8	7	3	5	15	10	12	16	9	13	4	3	4
3 GHz	12	8	10	8	4	6	17	12	15	18	12	15	_ 5	3	4
6 GHz	17	12	15	11	7	9	23	17	20	24	17	20	11	8	9
10 GHz	34	26	38	27	21	24	A:	38	35	36	28	35	33	27	38
26 GHz	54	48	51	48	44	46	l eı	55	58	50	46	48	57	48	53

11:1

3

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y!	ARL'	Y	J	AN-MA	R.	A	2R-11	ИN	JI	JL-SI	EP	CI	CT-DI	C
	day	nit	d&n	day	nıı	d&n	day	nit	d&n	day	nit	din	day	nit	d&n
Percent occurrence	1	1	1	1	1	1	1	2	2	3	1	5	8	1	1
AVG thickness Kft	1		. 19	l		.23	l		. 19	l		.21	i		. 15
AYG trap freq GHz			2.3			1.8	l		2.0	1		1.8	i		3.7
AVG lyr grd -H/Kft			185			276			261			104	<u> </u>		99

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Ý T	31	AH-HI	1R	RI	アーノ	JK	31	JL-SI	EP T	0	CT-DI	EC
	day	nit	dan	day	nıt	d&n	day	r: i t	d&n	day	nit	dån	day	nit	d&n
Percent occurrence	3	4	4	2	1	2	3	4	4	6	16	8	2	2	2
AYG top ht Kft			2.3	1		1.0			2.2			3.4	1		2.8
AVG thickness Kft			.20			.17	l		.24	i .		.25	L		. 15
AVG trap freq GHz			1.9			1.8			-88			.83	Ι —		4.8
AVG lyr grd -N/Kft	[57			55	l		59	}		58	l		56
AVG lyr base Kft	l		2.2	l		.82	ļ		2.1	l		3.2	ļ_		2.6

EVAPORATION BUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURREN	CE 7	EARL'	Υ	J	AN-M	RR.	Al	1t-80	UN	J	UL-SI	P	00	T-DE	C
	day	nit	otr	day	nit	d&n	day	nit	d&n	day	nit	<u>d&n</u>	day	nit	d&n
@ to 10 Feet	25	26	25	24	23	23	28	19	20	36	33	34	22	27	25
10 to 20 Feet	21	27	24	28	33	31	20	27	23	15	22	18	21	25	23
28 to 38 Feet	20	22	21	22	23	23	20	26	23	14	18	16	24	21	23
30 to 40 Feet	12	10	11	12	10	11	12	9	11	8	8	8	15	15	15
48 to 50 Feet	5	4	5	4	4	4	5	4	5	5	4	4	7	5	6
50 to 60 Feet	3	_ 2	2	2	1	2	3	1	2	2	2	5	3	2	3
60 to 70 Feet	1	1	1	1	1	1	2	1	1	1	2	2	1	1	1
78 to 80 Feet	1	1	1	8	1	1	1	2	2	2	1	5	1	1	1
80 to 90 Feet	1	1	1	1	8	1	1	1	1	1	2	1	1	<u> </u>	0
90 to 100 Feet	1	1		0	ઇ	0	1	1	1	1	1	ī	0	0	. 8
above 100 Feet	10	6	8	6	3	4	15	9	12	! 15	9	12	4	3	4
Kean height Fee	1 36	29	35	29	24	27	15	35	48	41	32	36	29	24	26

PARAMETEP	YEARLY		Jf	111-11F	R	AF	P-J	jH _	Jl	JL-SI	P	- 00	CT-B!	EC
i	day nit	din	day	nit	d&n	day	nit	d&n	day	nst	din	day	nit	dan
% occur EL&SB dcts		0			. 6			8			0	}		9
% occur 2+ EL dcts		8	l		9			ø	l		1	1		8
AVG station N		316	i		323			313	Ì		314	1		3:2
AVG station -N/Kft		13			15			13			12	į		13
AVG sfc wind Kts	15 13	14	17	15	16	14	11	13	12	10	11	10	16	17

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

Specified location: 70 07 N 143 37 H (*) INDICATES INSUFFICIENT DATA

Radiosende source: 70086 70 07 N 143 37 W

Radiosonde station height: 49 Feet Surface obs source: HS195 55 80 N 145 88 H

	PERCENI UL	COMPERCE !	UF C	nnn	LET.	SURF	HLE-	<u>10-51</u>	UKFR	LE FI	nunk.	EST	LON	KHM	9E2:		
I	FREQU	JENCY	Y	ERKL	Y	J	RH-M	AR	R:	PR-J	UN	31	UL-31	EP	01	CT-DE	EC
Ì			day	nit	din	day	nit	din	day	nit	đěn	day	nit	din	day	nit	đ£n
	100 H	Hz	0	8	0	0	0	- 6	0	- 0	9	1	1	1	0	- 0	9
i	1 0	iHz	5	2	4	2	2	2	7	2	5	i 9	4	6	2	1	2
1	3 0	Hz	6	3	5	2	2	2	10	2	6	11	5	8	3	2	2
ļ	6 0	Hz	19	5	7	4	3	3	13	4	9	16	8	12	6	3	5
Į	10 0	Hz	25	18	21	16	12	14	24	12	18	29	23	26	39	25	27
1	28 6	Hz	45	48	43	38	35	37	48	31	36	45	44	44	56	52	54

SURFACE BASED DUCT	SUMM	HXY:													
PARAMETER	Y	EARL	7	J	AN-HI	AR .	A)	R-J	JN	7	JL-SI	EP	00	CT-DI	EC
	day	nit	d&re	day	nit	din	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	3	3	2	3	3	4	2	3	5	5	5	2	5	2
AVG thickness Kft	1		.19			. 14	i		. 21	1		.29	ļ		.12
AYG trap freq GHz	{		1.8	ļ		2.6]		1.8	l		1.1	•		1.8
AVG lyr grd -N/Kft	l		135	l		87	1		99	l		122	í		231

ELEVATED DUCT SUMMARY:

PARAMETER	YE	EARL'	Υ	Ji	AN-M	AR	RF	-R-3	JH	Ji	JL-SI	EP	00	T-DI	EC
	day	nit	d&n	day	nit	dŁn	day	nit	din	day	nit	d₽n	day	nit	ರ್ಷಗ
Percent occurrence	7	11	9	3	4	4	7	12	10	:5	24	28	3	3	3
AVG top ht Kft			1.6	j		1.5	l		1.9	i		1.5	l		1.7
AVG thickness Kft	1		.24	1		.18			. 24	i .		.34	l		.19
AVG trap freq GHz			1.5			1.6			2.2			. 50			1.5
AVG lyr grd -N/Kft			59	į		54	l		59	l		59	1		62
AVG lyr base Kft	l		1.5	1		1.4	l		1.7			1.2	l		1.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCURRENCE	Ϋ́I	RRL	7	J	AN-M	RR T	Af	₹ -J i	UH	J	JL-SI	EP_	00	T-DE	EC.
		Cay	nit	d&n	day	nit	dên	day	nit	d&n	day	nit	d&n	day	nit	din
0 to	18 Feet	31	36	31	31	38	36	35	36	35	36	33	35	22	22	22
18 to	20 Feet	26	31	28	31	36	34	27	34	31	22	26	24	23	27	25
20 to	30 Feet	28	23	22	23	23	23	17	20	18	16	21	19	26	27	27
30 to	40 Feet	11	11	11	10	8	- 9	8	7	7	10	11	10	17	17	17
40 to	58 Feet	4	3	3	2	1	2	3	1	2	4	4	4	7	5	6
50 to	68 Feet	_2	1	1	1	8	1	2	8	1	2	_ 2	2	2	1	2
60 to	70 Feet	1	9	1	8	8	0	1	0	1	1	1	i	8	8	0
78 to	80 Feet	1	8	Θ	Ø	9	9	1	6	9	1	3	1	9	9	8
80 to	98 Feet	9	9	8	8	θ		_ 1	0	0	_1	. 0	8	Ø	8	0
96 to	100 Feet	9	9	-0	8	0	9	1	8	0	1	9	0	8	0	. 9
Spors	188 Feet	4	1	2	1	1	1	6	1	4	7	1	4	1	1	1
Mean he	ight Feet	24	19	21	19	17	18	25	17	21	27	28	24	24	5:	23

PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit din	day nit dan	day nit dan	day nit dan	day nit din
% occur EL&SB dcts	0	8	0	1	8
% occur 2+ EL dcts	1	9	1	2	9
AYG statton N	319	325	316	318	316
AVG station -H/Kft	14	15	13	13	12
AVG sfc wind K's	18 18 18	20 29 20	16 17 17	15 16 15	21 28 21

Specified location: 71 18 N 156 46 N (*) INDICATES INSUFFICIENT DATA

Radiosonde source: 70026 71 16 N 156 46 H Radiosonde station height: 26 Feet

Surface obs source: MS196 55 88 N 155 88 N

PERCENT OCCUPPENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

		SOCION FOR THE E	ב כ	*******	LED .	JUNE	ncL-	10-31	JAT III		אוועו	L311	COII	Brun	<u> </u>		
Г	FRE	DUENCY	Y	EARL'	Υ	7	RM-MI	R	A!	PR-J	N	JI	JL-SE	EP	0:	CT-DE	EC
L			day	nıt	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
ī	100	HHZ	8	0	0	0	- 0	0	0	- 6	0	1	8	1	0	0	0
1	1	GHz	5	2	3	1	2	2	7	2	4	8	3	6	3	1	2
L	3	GHz	6	2	4	2	2	2	8	2	5	11	4	7	3	2	2
Γ	6	GH≥	9	4	7	3	3	3	12.	4	8	15	6	11	6	4	5
1	10	GH≅	22	15	18	12	10	11	20	9	15	26	18	22	27	22	25
L	20	GHz	48	35	37	31	29	38	34	24	29	48	35	37	53	51	52

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SURFACE BASED DUCT SUMMARY:

PARAHETER	Y!	EARL'	r	J	AN-MI	R	AF	R-J	JN	Jŧ	JL-SE	EF	O	CT-DI	EC
	day	nit	d&n	day	nit	dan	day	nit	dŧn	day	nit	d&n	day	nit	dån
Percent occurrence	4	3	3	2	3	3	4	2	3	7	3	5	1	2	2
AYG thickness Kft	ļ		.17			.13			.17			.21	1		. 15
AVG trap freq GHz			2.5			3.7			2.0			1.4	!		3.0
AVG lyn grd -N/Kft			99	1		86			75			131	ł		102

PARAMETER	//	ARL'	Y	JI	AH-MI	AR.	AF	PR-JI	หม	J	UL-SI	EP	0(CT-DI	EC
	day	nıt	din	day	nıt	der	day	nit	d&n	day	nıt	dan	day	nit	dån
Percent occurrence	7	10	9	3	3	3	18	13	12	13	21	17	2	3	3
AVG top ht Kft	i		1.9	l		1.6	l		2.1			2.7	l		1.4
AVG thickness Kft			.19	1		.12			. 26			.28			. 15
AVS trap freq GHz			2.1			4.0			1.3			.72			2.5
AVG lyr grd -N/Kft	i .		60	1		59			61			63	l		56
AVG lyr base Kft	l		1.8	!		1.5	ı		1.9			2.5	l		1.3

EVAPORATION DUCT HISTOGRAM IN PEPCENT OCCUPRENCE:

PERCENT	900	URRENCE	11	EARL'	·	J	AH-M	คล	AI	PR-J	1H	3	UL-SI	EP	ő	T-DE	EC
			day	nit	din	day	nit	dan	day	nıt	d&n	day	nit	den:	day	nit	dan
Ø to	10	Feet	35	33	34	34	33	34	41	39	48	42	37	48	21	21	21
10 to	20	Feet	27	34	30	35	39	37	26	37	32	22	29	26	26	29	27
26 10	38	Feet	18	20	19	19	19	19	14	15	14	_14	17	16	26	29	28
38 to	40	Feet	9	8	9	7	5	6	6	4	- 5	8	9	9	16	15	15
49 10	50	Feet	3	2	3	2	1	1	2	1	2	3	3	3	6	4	5
58 to	60	Feet	2	1	1	_ 1	_ 0	_8	1	1	1	2	1	1	2	1	2
60 10	70	Feet	1	. 0	8	1	-0	- 0	1	0	1	1	8	1	0	8	Ø
70 to	80	Feet	0	8	0	9	0	9	1	0	1	1	0	1	6	0	9
<u> </u>	90	Feet	8	0	9	0	0	9	1	8	- 0	1	8	9	9	. 3	9
90 to	100	Feet	8	8	8	Ð	0	9	0	0	0	1	0	9	0	Ű	Ø
above	100	Feet	3	1	2	1	1	1	5	1	3	5	2	4	2	1	2
Mean he	191	it Feet	22	18	20	17	16	17	23	16	19	24	18	21	25	21	23

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PARAMETER	YEARI	. Y	31	1H-H	R.	AF	R-J	N	J!	JL-SI	P	00	CT-DI	C
	day nit	d&n	day	nit	den	day	1111	den	day	nit	den	day	กเร	d&n
% occur EL&SP dcts		0	I		e			9			1			е
% occur 2+ EL dcts		1	1		0	ł		1	i		1			0
AYG station H		319	l		324	1		316			318			317
AVG station -H/Kft		14	l		15	l		13			13			13
AVG sfc wind Kts	18 18	18	26	20	_20	16	17	17	15	15	15	22	21	21

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HISTORICAL PROPAGATION CONDITIONS SUMMARY

70 58 N 178 31 W (*) INDICATES INSUFFICIENT DATA

Specified location: Radiosonde source: 21982 70 58 N 178 31 H Radiosonde station height: 18 Feet Surface obs source: MS198 55 88 N 175 08 H

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

PERCENT OCCORRENCE	<u> </u>	******	<u> </u>	30K+		<u>, , , , , , , , , , , , , , , , , , , </u>	<u> </u>	<u>, , , , , , , , , , , , , , , , , , , </u>	120111			1611111	<u>,_,,</u>		
FREQUENCY	Y	BRLY	'	J	AN-MI	R.	A1	R-JI	JN	JI	JL-SE	EP	0	CT-DI	EC
	day	nıt	d&n	day	nit	dŁn	day	nit	d&n	day	nit	d&n	day	กเน	d&n
188 MHz	0	8	8	*	*	*	0	- 0	. 0	8	0	0	*	*	*
1 GHz	4	2	3	¥	*	*	4	2	3	4	3	3	¥	*	*
3 GHz	_4	_ 3	4	*	*	#	5	2	4	_ 4	4	4	. .	#	*
6 GHz	7	4	6	+	*	*	7	4	5	7	5	6	-	*	*
18 GHz	14	9	12	*	•	*	15	8	11	14	11	12	*	*	*
20 GHz	26	22	24	+	*	*	27	20	24	25	_23	24	*		¥

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY		Ji	AH-MA	1R	Al	R-Jt	JH .	JI	JL-SE	P	01	CT-DE	C
	day nit	dan	day	nit	d&n	day	nit	dan	day	nit	dan	day	nit	d&n
Percent occurrence	1 1	1	e	0	8	ī	- 0	1	1	3	2	Ø	0	8
AVG thickness Kft		.26			¥	1		.28			. 24			*
AVG trap freq GHz		1.0	ı		*	ł		.70	l		1.4	l		ŧ
AVG lyr grd -H/Kft	[159	Ĺ		*			168	Ĺ		149	L		#

FI EVATED DUCT SUMMARY:

PARAMETER	YE	HRLY		7	AN-M	RR	AF	-R-J	JN	JU	JL-SI	EP	00	CT-DI	EC _
'	day	nıt	d&n	day	nıt	dan	day	nit	d&n	day.	nit	d&n	day	nit	d&n
Percent occurrence	1	1	i	. 8	8	8	0	1	1	2	ī	2	- 6	0	0
AVG top ht Kft	l		8.9			26	ļ.		1.8	1		5.3	1		2.2
AVG thickness Kft			.20			. 15			.22	L		.26			.16
AVG trap freq GHz			1.5			1.2			1.4			1.6			1.8
AVG lyr grd -N/Kft			69			67	l		85	[57	[67
AVG lyr base Kft	ı		8.8	i		26			1.7	1		5.1			2.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT (OCCURRENCE	YE	ARL	7	Ji	AN-MI	1R	RF	R-JI	JN	Ji	JL-SI	EP	00	T-DE	C
		day	<u>ni</u> t	dan	day	nıt	d&n	day	nit	d&n	day	nit	d&n	day	njı	d&n
Ø to	10 Feet	35	34	35	29	29	29	4:	42	41	49	47	48	21	19	20
10 to 2	20 Feet	32	36	34	38	43	41	33	38	35	27	31	29	28	33	31
28 to 1	30_Feet	18	18	18	20	20	20	13	12	12	11	13	_ 12	_28	29	_28
30 to	40 Feet	8	7	8	7	5	6	6	4	5	5	4	5	16	15	15
40 to 5	58 Feet	2	2	2	2	1	i	2	1	1	2	1	2	4	3	3
50 to	60 Feet	_ 1	1	1	1	0	1	1_1_	1	1	1	_ 1	1	_ 1	8	1
69 to	70 Feet	1	0	0	0	Θ	0	1	0	- 0	1	0	1	1	- 0	- 0
78 to 1	80 Feet	0	9	8	9	8	9	1	8	9	8	6	8	8	8	0
80 to	90 Feet	0	9	. 0	_0	9	. 0	l ø	9	0	8	. 0	_ 0	8		. 0
99 to	108 Feet	0	Ð	8	Ø	Õ	0	1	8	8	0	9	8	0	0	9
above	100 Feet	2	1	2	1	1	1	3	2	3	3	1	2	1	1	1
Hean he	ight Feet	19	17	18	19	15	18	19	16	17	17	15	16	22	21	21

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PARAMETER	Y	EARL'	۸	Ji	าห-ห	AR	RF	R-J	NU	Jt	JL-S!	P	00	CT-DE	EC
	day	nit	d&n	day	nit	d&n	day	nit	d≩n	day	nit	d&n	day	nit	den
% occur EL&SB dcts			8			9			9			9			_0
% occur 2+ EL dcts			8			9	ļ		e	ŀ		9	ĺ		8
RVG station N			318			323	١.		316			315	Į.		316
AVG station -N/Kft	i		12			13	[12			11	§ .		12
AVG sfc wind Kts	19	18	19	21	21	21	17	16	16	15	15	15	22	_22	22

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(*) INDICATES INSUFFICIENT DATA Specified location: 78 37 N 162 24 E Radiosonde source : 21965 70 37 N 162 24 E

Radiosonde station height: 125 Feet Surface obs source: MS200 55 00 N 165 00 E

PERCENT OCCURPENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	Y	EARL'	Y	Ji	AH-M	RR	A	PR-JI	JH	J	JL-SI	P	0	CT-DE	EC
L	day	nit	din	day	nit	_d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	9	9	0	9	- 0	0	0	- 0	Ø	0	- 0	0	0	- 3
1 Gdz	4	2	3	2	1	2	4	1	3	8	4	6	3	1	2
3 GHz	j 5	2	4	2	_2	2	5	2	3	9	_4	7	_ 4	_1	_ 3
6 GHz	7	4	6	4	4	4	7	4	5	12	- 6	9	7	3	5
18 GHz	18	13	15	12	9	18	13	7	10	21	13	17	25	21	23
20 GHz	35	31	33	31	28	29	25	_ 19	22	33	28	31	52	59	51

SURFACE BASED DUCT S	SUHMARY:				
PARAMETER	YEARLY	JAN-MAR	APR-JUH	JUL-SEP	OCT-DEC
	day nit dan	day nit d&n	day nit din	day nit dan	day nit dan
Percent occurrence	1 1 1	1 1 1	1 1 1	2 1 2	1 0 1
RVG thickness Kft	.21	.20	.11	.24	.30
AVG trap freq GHz	2.3	3.6	4.3	.83	.60
fNG yr grd -N/Kft	151	178	219	136	78

PARAMETER	Y	EARL	ľ	J	AH-MA	AR T	Ai	R-JI	אני	31	JL-S!	EP	0	CT-D	EC
	day	nıt	dŁn	day	D18	d&n	day	nit	dkn	day	nit	d&n	day	nit	dtn
Percent occurrence	1	1	1	0	- 0	8	1	1	1	2	2	2	Ø	1	1
AVG top ht Kft			2.8	ŀ		.95			3.1	İ		4.6			2.7
AVG thickness Kft	l		. 28	ļ		.28		_	.36			. 31			. 18
AVG trap freq GHz			1.0			.51			.34			1.5			1.7
AVG lyr grd -N/Kft	l		81			71			120	ļ		67			64
AVG lyr base Kft	ı		2.7	(.77	[3.8	[4.4	1		2.6

EVAPORATION BUCK HISTOCRAM IN PERCENT OCCURRENCE.

PERCENT OCCURRENCE	Y	EARL	r	J	AN-MA	R	PE	R-Jl	JH	JI	JL-SE	P	00	T-DE	EC.
	day	nit	dân	day	nit	d&n	day	nit	d&n	day	<u>nit</u>	d&n	day	nit	d&n
8 to 10 Feet	33	33	33	27	27	27	42	42	42	46	45	45	19	17	18
10 to 20 Feet	32	37	34	42	45	44	33	40	36	23	27	25	31	33	32
20 to 30 Feet	18	19	18	19	19	19	12	11	12	13	_15	14	28	29	_ 29
30 to 40 Feet	8	7	7	6	5	6	5	3	4	7	5	6	14	14	14
48 to 59 Feet	2	2	2	2	1	1	1	1	1	2	2	2	3	4	4
58 to 68 Feet	1	1	1	L Ø	:	1	1	1	1	_ 2	1	1	2	. 1	. 1
60 to 70 Feet	1	1	1	Ø	0	- 0	1	0	1	1	1	1	0	1	
70 to 80 Feet	1	9	9	e	8	0	1	1	1	1	9	0	1	9	ε
80 to 79 Feet	0	Ð	e	8	6	_ 9	9	. 8	_0	0	0	8	. 0	8	9
90 to ! JO Feet	0	0	0	8	e	8	0	0	8	1	8	0	0	0	6
above 100 Feet	4	2	3	[2	1	1	4	1	2	7	3	5	2	1	2
Hean height Feet	22	18	29	19	18	18	19	15	17	24	19	22	24	22	23

YE	ARL:	Y	Ji	ลห–สเ	AR	AF.	ページ	เห	JU	JL∼S₹	P	00	CT-DE	33
day	nit	dtn	day	nıt	d&n	day	nıt	d&n	day	nit	din	day	nit	dtn
		- 6	i		0			6		-	9			- 0
i		8	l		8	l		8			6	ŀ		0
{		320	l		328	ĺ		316			316			318
1		13	i		16	ļ		13	!		12			13
19_	19	19	22	21	_ 21	16	16	16	15	15	15	_ 22	_22	22
	day	day nit	day nit dtn 8 8 320 13	day nit dtn day 0 0 8 320 13	day nit dtn day nit 0 0 8 320 13	day nit dtn day nit dtn 0 0 0 0 320 328 13 16	day nit dtn day nit dtn day 0	day nit dtn day nit dtn day nit 0 0 0 0 320 328 13 16	day not day not day not day day day	day nit dtn day nit dtn day nit dtn day 0	day nit dtn day nit dtn day nit dtn day nit 0	day not don dtn day nit dtn day	day nit dtn day	

Specified location: 76 09 N 152 49 E (*) INDICATES INSUFFICIENT DATA Radiosonde source : 21358 76 09 N 152 49 E

Radiosonde station height: 46 Feet Surface obs source: MS201 55 80 H 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	Y	EARL'	<u>r </u>	Ji	AN-MI	iR .	AI	R-J	NH	71	UL-SI	EP	0	CT-DI	EC
	day	nit	din	day	nit	đěn	day	nit	d&n	day	_nit_	din	day	nit	dån
100 HHz	9	- 0	- 8	0	9	- 9	Ø		9	0	0	- 0	0	8	9
1 GHz	6	3	5	3	2	3	6	2	4	8	3	6	8	4	6
3 GHz	8	4	_6	4_	2	3	7	3	_ 5	10	_ 4	7	10	4	. 7
6 GHz	11	5	8	6	4	5	12	6	÷	14	6	18	13	5	9
10 GH≥	18	18	14	18	5	7	18	9	13	29	11	16	23	13	18
20 GHz	27	18	22	18	11	15	23	13	18	29	19	24	39	28	34

SUPPACE BASED DUCT SUMMARY.

PARAMETER	Y	EARL	7	J	AN-M	AR .	AF	R-J	JH	31	UL-S	EP	0	CT-DI	EC
	day	nit	d&n	day	nit	d&n	day	nit	din	day	nit	din	day	nit	d&n
Percent occurrence	2	1	1	1	1	1	0	2	1	4	1	3	1	$-\frac{1}{1}$	1
RYG thickness Kft			. 15	1		.21	l		16			.14	1		. 10
AVG trap freq GHz			3.3	ĺ		1.8	ĺ		3.5	f		3.2	ſ		4.8
RVG lyn grd -N/Kft			159	i	_	146	_	_	109	Ĺ		219			178

ELEVATED DUCT SUMMARY:

ELEANIED DOCT SOUWH	<u> </u>														
PARAMETER	YI	EARL'	Ÿ	J1	RN-M	AR .	A	R-J	UH	J	UL-S	EP	0	CT-DI	EC
	day	nit	d&n	day	nit	dkn	day	nit	d&n	day	nit	d&n	day	nit	den
Percent occurrence	8	2	1	0	1	1	1	2	2	8	3	2	9	1	1
AVG top ht Kft			4.3	1		6.2	i		2.2	l		2.2	1		6.6
AVG thickness Kft	Ĺ		.24	<u> </u>		.26	l		.38	L		.31	L		.19
AVG trap freq GHz			1.4	i		1.1	Ĭ		.65	•		.67	1		3.0
AYG lyr grd -N/Kft			69	1		91	1		55			68	l		63
AVG lyr base Kft			4.1	Ĺ		6.8	<u> </u>		1.9			2.0	Ĺ		6.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCI	JRRENCE	Y	ARL	7	J	AN-M	AR	AI	PR-J	UN	31	UL-SI	EP	0	T-DE	C
			day	nit	din	day	nit	d&n	day	าโ	dŁn	day	nit	din	day	nit	din
9 10	10	Feet	49	55	52	52	60	56	55	65	ۯ	52	56	54	34	42	38
19 to	28	Feet	25	28	26	30	38	30	22	24	23	21	26	23	27	31	29
28 to	30	Feet	19	8	9	8	6	_ 7	5	3	_ 4	9	8	8	17	15	16
30 to	40	Feet	4	3	3	3	1	_2	3	1	2	4	3	3	7	6	7
40 to	50	Feet	2	1	2	1	8	8	3	1	2	3	2	2	[3	2	2
50 to	68	Feet	1	1	1	1	- 8	- 0	2	1	_ 2	1	1	1	_ 2	9	1_
60 to	78	Feet	1	1	1	1	1	1	1	1	1	1	1	1	1	8	8
78 to	89	Feet	1	8	1	1	9	9	1	1	1	1	1	1	1	0	9
80 to	98	Feet	1		0	_ 0	. 0	9	1_1	0	1	<u> </u>	8	1	1	8	1
98 to	100	Feet	1	9	- 6	. 8	- 0	0	1	1	1	1	9	1	1	0	1
above	100	Feet	6	3	4	3	2	2	6	2	4	7	3	5	7	3	5
Hean he	e i ghi	Feet	23	15	19	16	12	14	21	13	17	24	17	20	29	19	24

PARAMETER	YE	ARLY	7	Ji	พ-สเ	AR	RI	R-JU	JÑ	JĮ	JL-SI	P	O	T-DI	EC
	day r	nit	d&n	day	nit	d&n	day	nit	din	day	nit	din	day	nit	dŧn
% occur EL&S& dcts			6			8			- 0	i -		8	I —		9
% occur 2+ EL dcts	İ		0			9	1		6			9	ì		0
RVG station H	ł		328	ŧ		328			316	ĺ		316	ļ.		321
AVG station -H/Kft			13			15			12			12	Ī		13
AVG sfc wind Kts	12	12	12	12	12	12	11	_11	11	10	9.4	18	15	14	_15

Specified location: 73 10 N 143 55 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 21647 73 18 N 143 55 E

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75 Feet Radiosonde station height:

Surface obs source: MS201 55 00 N 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

TENCENT OCCUPRENCE	<u>, -</u>	1101111	<u>, _, , , , , , , , , , , , , , , , , , </u>	JURE		<u> </u>		<u> </u>		4011		121111	<u> </u>		
FREQUENCY	YI	EARL	ť	31	RN-MA	R.	RI	PR-J	JH _	JI	JL-SI	EP	0	CT-DI	EC
1	day	nit	d&n	day	ពរន	dan	day	nit	d&n	day	nit	dan	day	nit	d&n
100 MHz	e	9	9	8	Θ	0	9	0	0	0	9	8	0	0	- 0
1 GHz	6	3	4	3	2	2	6	2	4	8	4	6	8	3	6
_ 3 GHz	8	3	5	4	2	3	8	3	5	10	4	. 7	18	4	. 7
6 GHz	11	5	8	6	3	5	13	5	9	13	6	10	13	- 5	9
10 GHz	17	9	13	10	4	7	18	8	13	19	11	15	23	13	18
20 GHz	27	17	22	18	10	14	23	11	17	28	19	24	39	27	33

SOKEHOE BUSED DOCT	Sunni	HKY:													
PARAMETER	YE	ARL	Y	J	AN-M	AR	A	PR-J	אט	J	JL-SI	EP	O	CT-DI	ĒC
	day	nit	d&n	day	nit	d&n	day	nit	din	day	nit	d&n	day	nit	d&n
Percent occurrence	1	0	1	1	9	1	1	- 0	1	2	1	2	1	- 0	1
AVG thickness Kft	i		.20			.27			.31	1		- 10	ŀ		.12
AVG trap freq GHz	ſ		2.7	[1.7	•		1.5	!		1.8			5.7
AVG lyr grd -N/Kft	<u> </u>		334	1		322	L		378	L_		302	L		¥

PARAMETER	Y	EARL	Y	J	AN-M	R	AI	R-31	אט	J	UL-Si	EP	0	CT-D	EC
	day	<u>ni</u> t	d&n	day	nit	dŁņ	day	การ	d&n	day	nit	din	day	nit	dŁn
Percent accurrence	1	1	1	0	8	0	0	0	8	1	2	2	1	9	1
AVG top ht Kft	1		3.3	l		.77			7.4	Ì		2.5			2.4
AVG thickness Kft	L		. 25	Ì.		.15		_	.31	l		. 49	_		.12
AVG trap freq GHz			1.7	i –		.84			.35			1.0			4.5
AVG lyr grd -N/Kft	İ		85	l		127	l		87	i		68			58
AVG lyr base Kft	Į		3.1	i		.72	Į		7.3	1		2.2			2.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCES

PERCENT OCCU	RRENCE	YE	RRLY	7	31	AH−nı	ar -	Af	R-JI	jh	Ji	JL-SE	Р	00	CT-DE	EC_
		day	nit	dkn	day	nit	dan	day	nit	den	day	nit	din	day	nit	d&n
8 to 18	Feet	49	56	52	52	60	56	55	-55	60	52	56	54	34	42	38
18 to 28	Feet	25	28	26	30	30	39	22	24	23	21	26	23	27	31	29
20 to 30	Feet	18	. 8	9	8	6	7	5	3	4	9	8	8	17	13	16
38 10 48	Feet	4	3	3	3	1	2	3	1	2	4	3	3	7	6	7
40 to 50	Feet	2	1	2	1	8	8	3	1	2	3	2	2	3	2	2
58 to 68	Feet	1	1_	1	1		0	2	1	_ 2	1_1	1	1	_2	_8_	1
60 to 70	Feet	1	1	1	1	1	1	1	1	ī	1	1	1	1	. 6	9
70 to 80	Feet	1	8	1	1	Θ	8	1	1	1	1	1	1	1	0	6
80 to 90	Feet	1	. 9	. 8	0	_ 0		1	. 8	_ 1	1	9	1	1	ß	1
90 to 100	Feet	1	0	8	0	8	Ø	1	1	1	1	8	1	1	9	1
above 100	Feet	6	3	4	3	2	2	6	2	4	7	3	5	7	3	5
Hean height	Feet	23	15	19	16	12	14	21	13	17	24	17	20	i 29	19	24

GENERAL METEOPOLOGY SUMMARY:

CONTRACTOR CONTRACTOR

YEHRI	.Υ) J	ни-п	1K	1 23	'K-J(JN	J.	ひしーショ	EΡ	טט ן	. ເ – ນຄ	:::
day nit	d&n	day	nit	dŧn	day	nit	C. 2	day	nit	dīn	day	nit	din
1	8			8			0			8			9
	0	ı		0	i		8	ł		8	1		9
ĺ	321	[331	[316			317	ĺ		319
l	13	ł		16	ł		12			12			13
12 12	12	12	12	12	11	11	_11	10	9.4	10	15	14	15
	day nit	8 0 321	day nit dan day 0 0 321	day nit dan day nit 8 0 321	day nit dan day nit dan 0 0 0 0 321 331	day nit d&n day nit d&n day 0 0 0 0 321 331	day nit dtn day nit dtn day nit 0 0 0 0 321 331	day nit dan day nit dan day nit c n 0 0 0 0 0 0 0 0 321 331 316	day nit d&n day nit d&n day nit c n day 0 0 0 0 0 0 0 0 321 331 316	day nit dan day nit dan day nit craday nit day nit 0 0 0 0 0 0 0 0 321 331 316	day nit dan day nit dan day nit con day nit dan 0 321 331 316 317 317	day nit dan day nit dan day nit c n day nit dan day 0 <	day nit dan day nit dan day nit con day nit dan day nit 0 <

Specified location: 76 00 N 137 54 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 21432 76 88 N 137 54 E

Radiosonde station height: 33 Feet Surface obs source: MS201 55 00 N 155 00 E

PEDIFNI ACCURRENCE OF ENHANCED SUBFACE-IN-SUBFACE DARRO/FSM/COM DANCES.

PEPCENI OCCURRENCE	OF ER	Innni	<u>-ED :</u>	SURFI	16-	10-36	UKFRI	-C RF	אחעד	ESA	CUR	RANK	,63.		
FREQUENCY	YE	ARLY	7	Ji	AH-M	AR	BE	R-Ji	JH	J	JL-SI	٦	00	CT-DE	:C
	day	nit	din	day	nit	d&n	day	nit	dŁn	day	nit	d&n	day	nit	d&n
100 MHz	0	8	8	0	0	8	9	- 0	0	8	0	Ø	อ	-0	0
1 GHz	6	3	4	3	2	3	6	2	4	8	3	5	7	3	5
3 GHz	8	3	_ 5	4	2	3	8	3	6	_ 9	4	7	9	4	7
6 GHz	11	5	8	6	4	- 5	13	6	9	13	6	9	12	- 5	8
10 GHz	17	9	13	9	5	7	18	9	14	19	10	15	22	13	17
20 GHz	27	17	22	18	11	14	23	12	18	27	18	23	39	27	33

SURFACE RASED DUCT SUMMARY:

JORFREE BRISED DOCT .	<u> </u>	14 1 2													
PARAMETER	YI	ARL'	Ÿ	_1	H-NA	AR_	A	PR-JI	UH 🔠	J	JL-S	EP	01	CT-D	EC
	day	nit	d&n	day	nit	d&n	day	nit	dŁn	day	nit	<u>d&n</u>	day	nıt	dŁn
Percent occurrence	1	1	1	1	1	1	1	1	1	1	3	1	-0	- 0	8
AVG thickness Kft			.28			. 10			.16	1		.41	Į.		.11
AVG trap freq GHz			1.8			2.9			1.2	l		.29	ì		2.8
AVG lyr and -H/Kft			119	Ĺ		_84	Ĺ		149	Í		86	Ĺ		155

ELEVATED DUCT SUMMARY:

PARAMETER	Y	ARLY	′	31	H-HE	R.	AI	PR-JI	אנ	J	JL-SI	£Ρ	O	CT-DI	EC
	day	nit	din	day	nit	din	day	nit	dŁn	day	nit	dan	day	nit	dan
Percent occurrence	1	9	8	1	8	1	Ø	0	0	3	1	1	8	8	- 0
AVG top ht Kft			3.2	1		6.2	l		.62	Į.		2.9	l		+
AVG thickness Kft			.21	Ĺ		.12	L		.21	L		.29			*
AVG trap freq GHz			1.5			2.4			1.1			1.0			+
AVG lyr grd -N/Kft			74	ł		81	l		68]		88			*
AVG lyr base Kft			3.1	L		6.1	L		.46	L		2.8	L		*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCC	URRENCE	YE	ARL	1	Jí	N-Hi	R	- AI	PR-J(JH	JI	JL-SI	EP	00	T-DE	EC
			day	nit	d&n	day	nit	d&n	day	nit	din	day	nit	d&n	day	nit	dŁn
Gto	16	Feet	49	56	52	52	-68	56	55	65	60	52	56	54	34	42	38
18 to	28	Feet	25	28	26	38	30	38	22	24	23	21	26	23	27	31	29
20 to	38 _	Feet	10	8	9	8	6	. 7	5	_ 3	4	9	8	_ 8	17	_ 15	16
30 to	40	Feet	4	3	3	3	1	2	3	- 1	2	4	3	3	7	- 6	7
40 to	50	Feet	2	1	2	1	9	8	3	1	2	3	2	2	3	2	2
59 to	60_	Feet	1	. 1	_ 1	. 1	. 9	. 8	2	_ 1	_ 2	_ 1	. 1	1	2	. 0	_ 1
60 to	70	Feet	1	1	1	1	1	1	1	1	1	1	1	1	1	е	8
76 to	89	Feet	lı	8	1	1	0	0	1	1	1	1	1	1	1	8	Ð
80 to	98	Feet	1	8	9	0	9	9	1	9	1	1	8	1	1	១	1
98 to	188	Feet	1	- 0	9	e	9	6	, 1	1	1	1	9	1	1	0	
above	100	Feet	6	3	4	3	2	2	6	2	4	7	3	5	7	3	5
Nean he	iah	t Feet	23	15	19	16	12	14	21	13	17	24	17	28	29	19	24

PARAMETER	YE	ARL'	Υ	JF	M-H	HR	AP	R-J	K	Jl	JL-SI	ΕP	00	T-DE	EC
	day	nit	din	Jay	nit	din	day	nit	dŁn	day	nit	din	day	nit	d&n
% occur EL&SB dcts			8						9			8			0
% occur 2+ EL dcts			8	ŀ		0	l		8			a			Θ
AVG station N			321			336			316			316	ļ.		329
AVG station -N/Kft	i		13	į		15	1		12			12	1		13
AVG sfc wind Kts	12	12	12	12	12	12	11	11	11	10	9.4	18	15	14	15

128 55 E (*) INDICATES INSUFFICIENT DATA Specified location: 71 34 N

71 34 N 128 55 E Radiosonde source : 21824 Radiosonde station height: 26 Feet

55 00 N 155 00 E Surface obs source: MS201

PERCENT	SCCUPRENCE	0F	ENHANCED	SURFACE-TO-SURFACE	RADAR/ESM/COM	RANGES:

-	D. C. E. IV.	JC COP KENCE	<u> </u>	141 17 144	<u>, , , , , , , , , , , , , , , , , , , </u>	3001		<u> </u>	<u> </u>	<u> </u>	I DI III		~~~	1511111			
Г	FRE	DUENCY	Ϋ́	ERRL'	7	J	<u>คพ-ห</u> ร	iR	- AS	R-JU	JН	31	JL-SI	ΕP	0	CT-DE	EC
1			day	nit	dan	day	nit	dŁn	day	nit	d&n	day	nit	dŁn	day	nit	d&n
Г	100	KHZ	0	9	0	0	0	0	0	0	0	0	0	8	0	0	8
1	1	GH2	€	3	5	3	4	3	6	3	4	j 8	4	6	7	4	6
١.	3	GHz	8	_ 5	6	_ 4	4	4	7	5	6	10	5	7	9	4	?
Г	6	GHz	11	6	9	7	6	6	12	8	10	13	7	10	12	5	
1	10	GH2	17	11	14	18	8	9	18	10	14	19	12	15	22	13	18
<u> </u>	28	GHz	27	19	23	18	14	16	23	14	18	28	20	24	39	28	33

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and the second of the second o

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	ENRL'	Υ	J	AN-M	ar .	Al	PR-31	אע	J.	UL-S	EP	0	CT-DI	EC
	day	nit	dan	day	nit	dkn	day	nit	d&n	day	ntt	d&n	day	nit	d&n
Percent occurrence	1	3	2	2	5	4	0	3	2	2	2	2	9	1	1
AVG thickness Kft	l		. 19	ı		. 23	i .		.20	1		. 16	1		.17
PVS trap freq GHz			2.5	1		2.8	ļ		1.3	l		2.9	ľ		3.2
AVG lun and -H/Kft	<u> </u>		201			259			78	L		175	<u> </u>		292

FLEVATED DUCT SUMMARY:

PARAMETER	Y	ERRL	Y	31	RH-MI	AR .	A	R-JU	JH	Jŧ	JL-SI	EP	01	CT-DI	EC
	day	nit	dan	day	nit	d&n	day	nit	d&n	day	nit	d£n	day	nit	d&n
Percent occurrence	1		1	1	9	1	1	8	1	1	1	1	1	1	1
AVG top ht Kft			2.4	l		1.5	ĺ		2.6			3.5	ļ		1.9
AVG thickness Kft			.22			. 15	ĺ		.17	[.43	Ĺ		. 12
AYG trap freq GHz			2.5	Г		3.9			2.7			.49			3.8
AVG lyn and -N/Kft			59	ļ .		5?	i		55	l		63	l		62
AVG lur base Kft			2.2	ł		1.4	ļ		2.5	ı		3.2	l		1.8

EVAPORATION DUCT HISTOGRAM IN SERCENT OCCURRENCE:

PERCENT 0	CCURRENCE	YE	ARLY	1	J	H-HF	₹R	BF	R-Ji	JN	30	UL-S!	EP .	00	T-DE	:C
		day	nıt	d&n	day	nit	din	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 1	0 Feet	49	-5 6	52	52	- 60	56	55	65	68	52	56	54	34	42	33
18 to 2	0 Feet	25	28	26	38	39	39	22	24	23	21	26	23	27	31	29
20 to 3	8 Feet	10	8_	9	8	6	7	5	3	4	9	8	_8	17	15	16
30 to 4	0 Feet	4	3	3	3	1	2	3	1	2	4	3	3	7	6	7
40 to 5	0 Feet	2	1	2	1	8	0	3	1	2	3	2	2	3	2	2
50 to 6	0 Feet	1	1	1	1	. 0	9	2	1	2	1	1	1	2	0	1
60 to 7	0 Feet	1	1	1	1	1	1	1	1	1	1	1	1	1	0	3
70 to 8	8 Feet	1	9	1	1	9	9	1	1	1	1	1	1	1	9	Э
80 10 9	8 Feet	1	0	9	j 0	. 8	9	1	9	1	1	8	1	1	8	1
98 to 1	80 Feet	1	8	Ö	e	0	0	1	1	1	1	0	1	1	0	1
above 1	ag Feet	6	3	4	3	2	2	6	2	4	7	3	5	7	3	5
Mean her	ght Feet	23	15	19	16	_12	14	21	13	17	24	17	20	29	19	24

PHENNETER		HKL	7	J. 1	um-m	nk	111	-K-1	UN	J	Ar-21	EP	լ Մ	וע – וי	i.
	day	nit	d£n	day	nit	d&n	day	nit	d&n	day	nıt	din	day	nit	dtn
% occur ELESB dcts			8			0			0			ઉ			0
% occur 2+ EL dcts			0			0	l		8			9			8
AVG station N			321	Ì		328	i		315			318			321
AVG station -H/Kft	Į		13			15	l		12	l		12			13
AVG sfc wind Kts	12	12	12	12	_ 12	12	11	11	11	18	9.4	10	15	14	15

Specified location: 74 40 N 112 55 E (#) INDICATES INSUFFICIENT DATA

Radiosonde source : 21504 74 40 N 112 55 E

Radiosonde station height: 115 Feet Surface obs source: MS201 55 00 H 155 00 E

PEPCENT OCCURRENCE OF ENHANCED SUPERCE-TO-SURFACE RADAR/ESM/CCM RANGES:

PERCENT	UCCURRENCE .	UP E	nnnn	LED :	SURF	<u>ncz-</u>	10-3	UKPRI	· E _ K	-DUK-	<u> </u>	<u> </u>	KIN	JE3.		
FRE	QUENCY	Y	EARL'	Υ	J	AN-HI	AR	AF	R-JI	JH	J	UL-SI	EP	Ó	CT-D	EC
L		day	nit	dan	day	nit	dŁn	day	nit	dån	day	nit	d&n	day	nit	d&n
100	MHz	0	. 9	.0	0	0	0	0	8	9	0	е	0	*	*	*
1	GHz	5	3	4	3	2	2	6	2	4	8	3	6	*	*	*
]3	GHz	7	3	_ 5	<u> </u>	2	3	7	3	5	18	4	7	*	*	*
6	GHz	10	5	8	5	4	5	12	6	9	13	5	18	*	4	*
10	GHz	15	8	12	9	- 5	7	18	9	13	13	11	15	+	*	•
28	GHz	23	14	18	17	11	14	23	12	17	28	19	24	*	*	*

SURFACE RASED DUCT SUMMARY:

JOKI HOL DIJOLD DOCT															
PARAMETER	YI	EARL	Υ	3	AN-M	RR	AF	R-J	UH	J	JL-SI	P	0	CT-D	EC
	day	nit	d&n	day	nit	d&n	day	nit	din	day	nit	den	day	nit	d&n
Percent occurrence	1	1	1	0	1	1	8	ī	1	2	1	2	8	9	0
AVG thickness Kft			. 19	j		. 16	}		.24	}		.17	J		*
AVG trap freq GHz			2.2	l		2.4	i		1.8			2.4	1		*
AVG lyr grd -N/Kft	L	_	434	L		396	L		527	L		378	İ		*

FLEVATED DUCT SUMMARY:

ELEANIER ROCI SOUUM	<u> </u>														
PARAMETER	Y	EARL	Y	Ji	AH-M	AR	A:	7 J	אט	31	JL~SI	EP	0	CT-D	EC
	day	nit	d&n	day	nit	d&n	day	nit	den	day	nit	dŁn	day	nit	d&n
Percent occurrence	0	1	- 8	e	- 0	- 6	9	9	Ø	0	2	1	0	0	9
AVG top ht Kft			5.6	ļ .			i		18	ì		1.5	l		*
AVG thickness Kft			.30			*_	ļ		.34	ļ		.26			*
RVG trap freq GHz			1.5			#			.34			2.6			*
AVG lyr grd -N/Kft			69	ł		#	l		74	1		65	l		*
AVG lyr base Krt			5.4	Ĺ					_10	<u>L</u>		1.3			*

EVAPORATION PLOT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCE	NI	O.S	* YSS HCE	ļ YŁ	ARLY	ſ	Ji	an-He	48	H	PR-JI	אנ	J	JL-SF	:F	1 00	CT -DE	E
				day	nit	din	day	nit	din	day	nit	din	day	nit	ರಹಿಗ	day	nit	dkn
0	10	18	Feet	49	56	52	52	68	56	55	65	60	52	5€	54	34	42	38
10	tc	28	Feet	25	28	26	30	38	39	22	24	23	21	26	23	27	31	29
29	10	38	Feet	18	8	9	8	. 6	?	5	3	_ 4	9	8	8	17	15	16
30	10	40	Feet	4	3	3	3	1	- 5	3	1	2	4	3	3	7	6	7
40	to	58	Feet	2	1	2	1	8	6	3	1	2	3	2	2	3	2	2
59	to	60	Feet	1	1	1	1	8	9	. 2	. 1	2	1	1	1	2	8	1
69	10	70	Feet		1	2	1	i	1	1	1	1	1	1	1	1	0	9
70	to	88	Feet	1	9	1	1	æ	3	1	1	1	1	1	1	1	9	0
88	to	98	Feet	1	3	0	e	5	0	_1	8	_ 1	1	. 0	1	1	. 0	1
98	to	100	Feet	1			9	9	8	T	1		1	8	1	1	9	1
ಾರತ	ve	100	Feet	6	3	4	: 3	2	5	6	2	4	?	3	5	7	3	5
Hean	h	e i al	nt Feet	23	15	:3	16	12	14	21	13	17	24	17	28	29	19	24

PARAMETER	YEARLY	JAN-MAR	RPR-378	JUL-SEP	OCT DEC
	day nit dan	day nit din	day ni: din	day nit dan	day nit din
% occur EL&SB dcts		6	0	8	0
% occur 2+ EL dcts	0	(e	į e	0	8
AVG station N	318	326	3:3	314	317
AVG station -N/Kfs	13	15	12	12	13
RVG sfc wind Kts	12 12 12	12 12 12	11 11 11	18 9.4 10	15 14 15

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(*) INDICATES INSUFFICIENT DATA Specified location: 77 43 N 104 16 E Radiosonde source : 20292 77 43 N 104 16 E 43 Feet Radiosonde station height: Surface obs source: MS201 55 00 N 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE CADAR/ESM/COM RANGES:

	FRE	DUENCY	Y	EARLY	,		AN-M	AR.	, β _E		N	.11	JL-SE	P	n	CT-DI	EC
		2021101	day				nit				'&rı						dan
	100	HHz	8	0	0	*	*	*	e		0	0	0	0	*	*	*
1	1	GHz	7	3	5	*	¥	*	6		;	7	3	5	¥	*	¥
1	3	GHz	8	3	6	*	*	*	7	3	_	9	4	_ 6	*	#	
	6	GHz	12	6	- 9	*	+	¥	12	6	9	13	6	9	*	*	+
1	10	GHz	18	9	14	+	#	*	18	9	13	19	10	15	¥	*	¥
	28	GHz	25	15	28	. *	*	#	23	12	17	27	18	_ 23	*	*	#_

SURFACE BASED DUCT SUMMARY:

PARAMETER	YI	ARL'	Y	Ji	H-H	AR	RI	PR-J	UN	- 31	UL-S	EΡ	00	CT-DI	EC
1	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	n <u>i</u> t	d&n	day	nit	d&n
Percent occurrence	0	- 8	- 0	9	0	- 0	0	1	1	1	8	1	e	0	- 0
AVG thickness Kft	į		.22	İ		#	i		. 12			.31	l		*
AVG trap freq GHz			2.9	l		#	l		4.5	}		1.2	l		*
AVG lyr grd -N/Kft			100			+			144			55			_*

ELEVATED DUCT SUHMARY:

PARAHETER	Ϋ́	EARL'	Y	J	RN-MI	R	A!	PR-J	UN	7	UL-S	EP	0	CT-DI	EC
	day	nit	d&r	day	nit	dan	day	nit	d&n	day	nit	d&n	day	nit	dun
Percent occurrence	0	1	0	9	0	8	0	- 0	9	0	1	1	6	1	
AVG top ht Kft			8.9	ł		24	ł		4.3	Ì		3.1	l		4.6
AVG thickness Kit			. 15	L		.14	<u> </u>		. 24			. 14	<u> </u>		.08
AYG trap freq GHz			3.8			1.1			5.0			4.8	1		4.1
AYG lyr grd -N/Kft	i		71	1		93	l		67	ì		56	İ		68
AVG lyr base Kft			8.8	l		23	1		4.1	l		3.0	ļ		4.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT	000	URRENCE	-VI	EARL'	Y	J	AN-HI	RR	R	PR-JI	JH	J	JL-SI	P	_0	CT-DE	EC
			day	nit	d&n	day	nit	dan	day	nit	d&n	day	nit	d&n	day	nit	dan
0 to	18	Feet	49	56	52	52	68	56	55	65	60	52	56	54	34	42	38
10 to	28	Feet	25	28	26	38	38	38	22	24	23	21	26	23	27	31	29
28 to	30	Feet	10	8	9	8	6	7	5	3	4	9	8	8	17	15	_16
30 to	40	Feet	4	3	3	3	1	2	3	1	2	4	3	3	7	6	7
48 to	50	Feet	2	1	2	1	0	8	! з	1	2	3	2	2	3	2	2
50 to	60	Feet	1_	1	1	1	6	0	2	1	2	_ 1	1	1	2	9	_ 1
60 to	70	Feet	1	1	1	1	1	1	1	1	1	1	1	1	1	0	9
70 to	89	Feet	1	9	1	1	9	9	1	1	1	1	1	1	1	9	0
80 to	90	Feet	1	8	. 0	0	8	8	1	0	1	1	9	1	1	0	_ 1
98 10	100	Feet	1	0	9	9	0	0	1	1	1	1	0	1	1	8	1
above	160	Feet	6	3	4	3	2	2	6	2	4	7	3	5	7	3	5
Hean he	a gh	t Feet	23	15	19	16	12	14	21	13	17	24	17	20	29	19	24

YEARLY		Jf	314-14£	R.	RF	R-JU	JH	J	UL-SI	EP	01	CT-DI	EC
day nit	dŧn	day	nit	d£n	day	nit	d&n	day	nit	d&n	day	nit	d&n
	8			0			0			9			0
	в			8			8			0	l		9
	319			325	ŧ		314	İ		316	l		319
	13			:4	ł		12			12	l		13
12 12	12	12	12	12	11	11	_11	18	9.4	19	15	14	15
	day nit	0 0 319	day nit din day 8 8 319	day nit dtn day nit 0 0 319	day nit dtn day nit dtn 0 0 8 9 319 325	day nit din day nit din day 0 0 0 0 319 325	day nit dtn day nit dtn day nit 0 0 0 0 319 325	day nit dtn day nit dtn day nit dtn 0 0 0 0 0 0 0 0 0 319 325 314	day nit din day nit din day nit din day 0	day nit dtn day nit dtn day nit dtn day nit dtn day nit dtn day nit 0	day nit din din d	day nit dtn day nit dtn	day nit dtn day nit dtn

Specified location: 73 30 N 80 13 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 20674 73 38 N 80 13 E

Radiosonde station height: 66 Feet

Surface obs source: MS252 65 00 N 5 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESN/COM RANGES:

1	LIVE CO.	OOCHINE !	<u> </u>	***			<u></u>		<u> </u>	<u> </u>	*****		9017				
1	FREQ	UENCY	YI	ERRL	Y	J	AH-H	AR	Al	PR-JU	<u> N</u>	Ji	JL-SE	EP -	0	CT~BI	EC
ı			day	nit	d&n	day	nit	dŧn	day	nit	d&n	day	nit	d&n	day	nit	dån
ı	100	MHz	0	0	0	*	#	*	0	0	9	8	0	0	*	*	*
1	1 (GHz	5	3	4		*	*	4	4	4	5	3	4	+	*	*
ı	3 (GHZ	6	4	5	*	*	*	6	5	5	6	3	4		*	*
ı	6 1	GHZ	9	?	8	*	*	*	8	7	8	10	- 6	8	*	*	*
Į	10 (GHz	1 30	28	29			*	25	22	23	34	34	34		*	*
1	29 (GH ₇	55	54	54	۱.		*	53	48	58	58	68	59		*	*

SUPERCE BASED DICT SUMMARY.

SUKFACE BUSED DOCT 3	SUNNNK I :				
PARAMETER	YEARLY .	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit den	day nit dan	day nit dan	day nit d&n	day nit dan
Percent occurrence	1 8 1	0 0 0	1 0 1	2 1 2	8 8 8
AVG thickness Kft	.20		.16	.25	1 *
AVG trap freq GHz	1.5		2.0	1.0	*
AVG lyr grd -N/Kft	166	*	198	142	

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Υ	J	AN-H	ar -	A	PR-J	UN	JI	JL-SI	EP	_ 0	CT-DI	EC
	day	nit	d&n	day	nit	din	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	0	9	0	Ø	9	8	9	θ	8	1	1	9	8	0
AVG top ht Kft			3.4	1					+			3.4	l		*
AVG thickness Kft			.19	L.,			l		*	l		. 19	L	_	*
AVG trap freq GHz			1.9						*			1.9			*
AVG lyr grd -N/Kft	l		54	l		*	l					54			*
AVG lyr base Kft	ŀ		3.3	ļ						i		3.3			*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCUR	RENCE	Y 2	ARLY	,	3	AN-M	१२	RI	PR-J	UN	J	UL-SI	ΕP	01	T-DE	EC
			day	nit	d&n	day	nit	dkn	day	nit	d Ł n	day	nit	d&n	day	nit	d&n
0 to	10 F	eet	15	15	15	10	9	10	19	22	21	19	17	18	13	11	12
10 to	20 F	eet	26	25	26	29	28	28	29	31	30	24	23	23	21	28	20
28 to	30 F	eet	29	31	38	36	_ 39	_38	28	26	27	24	26	25	27	33	_38
30 to	40 F	eet	18	20	19	19	21	28	14	13	13	17	20	19	22	25	24
48 to	50 F	eet	6	5	5	4	3	3	3	2	2	7	7	7	10	7	9
50 10	60 F	eet	2	1	_ 2	1	0	1	1	1	1	3	2	3	4	_ 2	3
68 to	70 F	eet	1	. 0	1	0	8	0	1	1	1	1	1	1	1	9	1
78 to	80 F	eet	1	8	0	0	9	0	1	1	1	1	8	0	1	Ð	8
_ 80_to	90 F	eet	8	_ 8	e	8	_ 0	_ 0	1	8	0	8	8	9	. 0	_ 8	_ 0_
98 to	100 F	eet	0	0	- 0	8	8	8	0	1	1	0	0	0	8	8	8
above	100 F	eet	3	2	2	1	9	9	4	4	4	4	2	3	2	9	1
<u>Hean</u> he	ight	Feet	27	25	26	23	23	23	27	_25	26	38	27	28	29	25	_27

PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit di	n day nit dan	day nit dan	day nit dan	day nit dan
% occur ELLSB dcts	(8 8	8	8	0
% occur 2+ EL dcts]	8] 8	j e	9	. e
AVG station N	31	6 321	313	316	315
AVG station -N/Kft	1	3 14	12	12	12
RVG sfc wind Kts	18 17 1	8 28 28 20	15 14 14	15 15 15	21 21 21

Specified location: 77 30 N 82 13 E Radiosonde source: 20274 77 30 N 82 13 E Radiosonde station height: 72 Feet Surface obs source: MS252 65 00 N 5 00 E (*) INDICATES INSUFFICIENT DATA

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FROENT OCCUPPENCE OF ENHANCED SURFACE-TO-SURFACE RABAR/ESM/COM RANGES

PERCENT OCCUPPENCE	OF EI	нани	CED :	SURF	ACE-1	ro-sı	JRFAC	ERF	ABAR.	ESM.	COM	RAN	<u> </u>		
FREQUENCY	Y	EARL	Y	Ji	AN-MA	R R	AF	R-JI	JH	31	JL-SE	P	01	CT-DE	C
1	day	nit	dŁn	day	nit	d&n	day	nit	d&n	day	rit	d&n	day	nıt	d&n
100 MHz	0	0	0	0	0	0	0	0	6	0	9	0	0	0	0
1 GHz	3	2	3	1	0	1	4	4	4	5	3	4	3	8	2
3 GHz	4	2	3	1	0	1	6	5	5	7	3	5	3	8	2
6 GHz	8	4	6	3	0	2	9	7	8	11	6	9	9	2	5
10 GHz	31	29	30	24	24	24	25	22	23	35	33	34	41	35	38
20 GHz	69	60	60	60	63	62	_53_	48	58	58	69	_59	67	68	68

SUPPORE ROSED BUCT SUMMARY:

PARAMETER	YI	EARL'	Y	J	AN-M	fiR	Al	PR-JI	NH	Ji	JL-S	EP	Ð	CT-D	EC
į .	day	nit	d&n	day	nit	d&n	day	nit	dkn	day	nit	d&n	day	nit	dtn
Percent occurrence	2	0	1	1	0	1	1	0	1	4	1	3	2	- 8	1
AVG thickness Kft			. 15	l		. 16	1		.13	l		. 14	1		. 16
AYG trap freq GHz			1.5	l		1.2	1		1.1	ł		2.4			1.3
RVG lyr grd -N/Kft			200			109	<u>L</u>		185			374	<u> </u>		133

ELEVATED DUCT SUMMARY:

PARAMETER	Y	ARL	Y	J	AN-MI	AR .	RI	PR-JU	UN	Ji	JL-SI	P	09	T-DI	EC
	day	nit	d&n	day	nit	d&n	day	nıt	d&n	day	nit	din	day	nit	d&n
Percent occurrence	0	8	9	0	9	9	0	. 9	0	ī	0	1	0	0	0
AVG top ht Kft	1		6.7	l		*	l		+	}		6.7	Į		*
AVG thickness Kft			.10	Ĺ		¥			*	<u> </u>		.18	<u> </u>		*_
AVG trap freq GHz			5.8	i		*			*	-		5.8	I		*
AVG lyr grd -N/Kft			48	l		*	i		¥	1		48	ĺ		#
AVG lyr base Kft			6.6			*			*	L_		5.6	L		#_

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCEI	ŧΤ	OCCI	JRRENCE	Y	ARLY	1	3	H-KR	AR.	AI	R-Ji	JH	Ji	JL-SE	EP	01	CT-DE	EC
				day	nit	d&n	day	nit	d&n	day	nit	din	day	nit	d&n	day	nit	d&n
8 1	to	10	Feet	15	15	15	10	9	10	19	22	21	19	17	18	13	11	12
10	t o	20	feet	26	25	26	29	28	28	29	31	39	24	23	23	21	20	20
28	t o	30	Feet	29	31	_38	36	39	38	28	26	27	24	26	_25	27	33	39
30	to	48	Feet	18	20	19	18	21	20	14	13	13	17	28	19	22	25	24
40	to	59	Feet	6	5	5	4	3	3	3	2	2	7	7	7	10	7	9
50	t o	60	Feet	2	1_	2	1	. 0	1	1	1	_1	3	s	3	4	2	3
60	10	70	Feet	1	8	1	0	0	0	1	1		1	1	1	1	0	1
70	to	80	Feet	1	9	9	0	0	9	1	1	1	1	9	0	1	8	8
80	10	90	Feet	9	B	8	9	0	8	1	0	0	_9	8	0	9	Ð	
98	t o	100	Feet	В	0	0	0	0	- 0	0	1	1	0	Ø	0	8	9	- 8
abo	ve	180	Feet	3	2	2	1	8	8	1 4	4	4	4	2	3	2	0	1
Mean	he	e i ghi	t Feet	27	25	26	23	23	23	27	25	26	38	27	28	29	25	27

YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
day nit dan	day nit dan	day nit d&n	day nit den	day nit dên
9	0	Ð	8	8
ទ	9	0	8	8
317	320	314	315	317
12	13	12	12	13
18 17 18	20 20 20	15 14 14	15 15 15	21 21 21
	day nit dan 0 0 317 12	day nit dan day nit dan 0	day nit dan day nit dan day nit dan 0	day nit dan day nit dan day nit dan day nit dan 0

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

Specified location: 73 19 N 70 01 E

Radiosonde source: 20667 73 19 N 70 01 E

Radiosonde station height: 20 Feet

Surface obs source: MS252 65 90 N 5 00 E

PEPCENT ACCUIPMENCE OF ENHANCED SUBERCE-TA-SUBERCE PADAP/ESM/CAM PANCES:

		17171616						- C							
FREQUENCY	Y	EARLY	•	Jí	RN-MI	ar 🗀	A	PR-JI	UH	J	JL-S!	EP	Q	CT-DI	EC
	day	nit	d&n	day	nit	den	day	ni t	d&n	day	nit	d&n	day	nit	d&n
188 MHz	0	9	9	0	9	0	*	*	#	0	9	9	0	Ø	0
1 GHz	3	2	2	1	1	í		*	*	5	4	4	2	1	1
3 GHz	3	2	3	_ 1	1	1_		*	•	5	5	5	_ 3	1	2
6 GHz	7	4	5	2	1	2	*	*	*	10	8	9	8	3	6
10 GHz	33	32	32	24	25	24	*	*	*	34	35	34	40	35	38
20 GHz	61	64	63	60	64	62	*	*	*	57	61	59	67	68	68

(*) INDICATES INSUFFICIENT DATA

SURFACE BASED DUCT	SUMMARY:				
PARAMETER	YERRLY	JAN-MAR	APR-JUN	J'IL-SEP	CCT-DEC
	day nit dan	day nit dan	day nit d&n	day nit d&n	day nit d&n
Percent occurrence	1 1 1	0 1 1	0 9 8	1 3 2	1 1 1
AVG thickness Kft	.26	.29	*	.38	.18
AVG trap freg GHz	1.0	.79	*	.61	1.6
AVG lyr grd -N/Kft	125	161	*	124	91

EFFAULT DOCT SOUUN	K I .														
PARAMETER	YE	ARL	Ÿ	J	K-NA	AR	AI	PR-J	UN	JI	JL-S	EP	0	CT-B	EC.
l	day	nit	<u>d&n</u>	day	nit	den	day	_nit	<u>d&</u> n	day	nit	dan	day	nit	d&n
Percent occurrence	8	8	8	0	8	0	0	0	0	0	6	0	0	0	0
AVG top ht Kft	1		.60	1		*	,		*	i		*	l		.60
AVG thickness Kft	İ		.11	<u>i_</u>		* _	L _		*	_		*	L_		. 11
AVG trap freq GHz			3.8			*			*			*			3.8
AVG lyn grd -N/Kft	1		59	ļ		*	i		#	l		*			59
AVG lur base Kft	l		51	ł		+	l			i		*	l		.51

PERCENT	OCC	URRENCE	Y8	ARLY	1	31	AN-MI	R.	AI	R-J	JH	JI	ルーン	Р	00	T-DE	C
			day	nit	dŁn	day	nit	den	day	nit	dkn	day	nit	d&n	day	nit	d&n
0 10	18	Feet	15	15	15	10	9	10	19	22	21	19	17	18	13	11	12
10 to	20	Feet	26	25	26	29	28	28	29	31	30	24	23	23	21	20	20
20_tc	38	Feet	29	31	38	_36	39	38	28	26	27	24	26	25	27	33	_38
30 tc	40	Feet	18	29	19	18	21	20	14	13	13	17	50	19	22	25	24
40 10	50	Feet	6	5	5	4	3	3	3	2	2	7	7	7	10	7	9
50_tc	68	Feet	2	1	2	1	0	_ 1	1	1	1	3	2	3	4	2	3
60 to	78	Feet	1	8	1	0	8	0	1	1	1	1	1	1	1	0	1
70 to	89	Feet	1	0	8	9	0	0	1	1	1	1	0	9	1	3	9
80 tc	90	Feet	0		9	9	9	. 0	1	0	6	8	8	0	_0	. 0	0
98 10	100	Fcet	8	0	9	0	8	8	Ø	1	ī	0	9	8	8	8	8
above	198	Feet	3	2	2	1	Ø	0	4	4	4	4	2	3	2	9	1
Mean h	eigh	t Feet	27	25	26	23	23	23	27	25	26	30	27	28	29	25	27

GENERALE METEOROFORT	JOININK				
PARAMETER	YEARLY	JAN-MAR	HUL-348	JUL-SEP	OCT-DEC
	day nit din	day nit dan	day nit dan	day nit d&n	day nit dan
% occur EL&SB dcts	9	9		0	9
% occur 2+ EL dcts	9	0	9	9	9
AVG station N	317	319	314	318	316
AVG station -N/Kft	12	13	12	12	12
AVG sfc wind Kts_	18 17 18	28 28 28	15 14 14	15 15 15	21 21 21

HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 79 30 N 76 58 E (*) IND/CATES INSUFFICIENT DATA Radiosonde source: 20069 79 30 N 76 58 E

Radiusonde station height: 59 Feet Surface obs source: MS252 65 00 N 5 00 E

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY		ARL			AH-M			R-JU			JL-SI	_		CT-DI	-
FREQUENCI															
	day	nit	dŧn	day	nit	d&n	day	nit	d&n	day	nit	<u>d&n</u>	day	nit	d&n
100 MHz	0	3	8	*	¥	*	0	0	-0	8	8	9	*	¥	*
1 GHz	4	4	4	*	*	*	4	5	5	4	3	4		*	*
3 GHz	5	5	5	*	¥	*	6	6	6	5	3	4	*	*	*
6 GHT	9	7	8	*	*	+	9	8	8	10	7	8	*	*	*
10 GHz	29	28	29	÷	*	*	25	23	24	34	34	34	÷	*	*
20 GHz	55	54	54	*	*	*	53	48	58	57	60	59	¥	*	*

PEACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	Ji	IH-H	AR	AF	R-JI	JN	JI	JL-SI	ΕP	01	CT-D	EC
	day	nit	dån	day	nit	din	day	nıt	dan	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	0	8	1	1	1	1	2	2	8	Ø	
AYG thickness Kft			.21			*			.22			. 21	l		*
AVG trap freq GHz	!		1.9	l		*			1.6	l		2.2	l		*
AVG lyr grd -N/Kft			102			*	İ		82			121			*

ELEVATED DUCT SUMMARY:

IREPS REV 2.1

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PRRAMETER	Y6	EARL'	r	J1	M-NF	6R	ļ AF	R-J1	JH	JI	JL-SI	EP	00	CT-DI	EC
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nıt	d&n	day	nit	<u>d&n</u>
Percent occurrence	0	0	9	_	0	9	0	- 0	0	- 6	8	8	0	Ø	- 0
AVG top ht Kft	1		4.3	l		*	ì		*	1		*	l		4.3
AVG thickness Kft			.43	ı		*	l		*	1		*	1		. 43
AVG trap freq GHz			.20			*			*			*			.20
AVG lyr grd -N/Kft			181	l		*			*			*	l		181
AVG lyr base Kft			4.2		_	*			#			*			4.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	CCCURRENCE	Y	EARLY	Y	31	AH-MA	1R	A	PR-JI	ЯU	J 1	JL-Si	EP	00	CT-DE	C
		day	nıt	d&n	day	nit	d&n	day	nit	₫&n	day	nit	d&n	day	nıt	dtn
8 to	10 Feet	15	15	15	10	9	10	19	22	21	19	17	18	13	11	12
10 to	20 Feet	26	25	26	29	28	28	29	31	30	24	23	23	21	20	28
20 to	30 Fee*	29	31	30	36	39	38	28	26	27	24	26	25	27	33	30
30 to	40 Feet	18	28	19	18	21	20	14	13	13	17	20	19	22	25	24
40 to	50 Feet	6	5	5	4	3	3	3	2	2	7	7	?	16	7	9
58 to	68 Feet	2	1	2	1	8	1	1_	1	1	3	2	3	4	2	3
68 to	70 Feet	ī	9	1	0	- 0	8	1	1	1	1	1	1	1	0	ī
78 to	80 Feet	1	8	0	9	0	0	1	1	1	1	0	8	1	8	9
80 10	90 Feet	0	9	6	9	0	8	1	. 0	0	. 0	9	9	9	<u> </u>	_ 8
98 to	100 Feet	0	0	9	0	0	0	9	1		8	0	0	0	8	0
above	100 Feet	3	2	2	1	9	9	4	4	4	4	2	3	2	8	1
Hean he	ight Feet	27	25	26	23	23	23	27	25	26	30	27	28	29	25	27

PHRHMETER	YE	RRL	()	Ji	HN-MI	R	HP	R−Jl	ЯĽ	JU	L-SE	P	- 81	:T-N	EC
	day (ren t	d£n	day	nit	dŧn	day	nıt	dån	day	nit	d&n	day	nit	dun
% occur EL&SB dcts			9			6			9			8			- 0
% occur 2+ EL dcts	l		0	l		0	İ		0			0			9
AVG station H	Į		318			321	1		315			316			320
AVG station -N/Kft	1		13	İ		14			12			12	İ		13
AVG sfc uind fts	18	17	18	20	28	20	15	14	14	15	15	15	21	21	21
				•											

والمرا والمتحالية والم

Specified location: 76 57 N 68 34 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 20353 76 57 N 68 34 E

Radiosonde station height: 26 Feet Surface obs source: MS252 65 88 N 5 88 E

PERCENT OCCUPRENCE OF ENHANCES CHREACE_TO_CUPEACE DASAD/ECH/COM DANCEC.

LI CLIII OC	CONFERENCE C	<u></u>	10 10 10 11		JUKE	100	. 0 - 30	3 L L 116	<u> </u>	TUTTE	E 311		7 (1)	463.		
FREQU	EHCY	YI	EARLY	r —	J	AN-M	RR	AI	PR-JI	JÑ	3	UL-S	EP	9	CT-DI	EC
		day	ra1 t	d&n	day	nit	d&n	day	nit	d&n	day	การ	d&n	day	nit	dan
100 H	Hz	0	8	9	*	*	#	0	0	8	*	¥	*	+	-	-
1 G	Hz	4	5	4	*	*	*	4	5	4	*	*	¥	*	*	*
3 G	Hz	5	6	5	*	*	*	5	6	5	*	*	*	*	ŧ	¥
6 G	Hz	8	8	8	*	*	*	8	- 8	8	*	*	*	#	#	¥
10 G	Hz	24	23	24	*	*	¥	24	23	24		÷	¥		¥	¥
20 G	Hz (52	48	58	*	*	*	52	48	50	*	*	*	*	*	÷

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	ARI.	7	J	AH-HI	AR	AF	R-J	ИH	J	JL-SI	P	00	T-D	C
	day	nit	d&n	day	nit	dan	day	nıt.	_d&n	day	nit	dan	day	nit	dån
Percent occurrence	e	0	- 0	8	9	0	0	1	1	Θ	0	0	0	8	8
AVG thickness Kft	1		.16	l		*	I		.16	ı		*	l		±
AVG trap freq GHz			.80	ĺ		*	ĺ		.89	i		*	ĺ		*
AVG lyr and -N/Kft			168	1		*	ł		168			*	l		4

ELEVATED DUCT CHMMADY.

PARAMETER	Y	EARL'	7	7	AN-MI	₹R	AF	R-JI	JH	Jl	JL-SI	Ρ	G	CT-DI	EC
	day	nıt	d&n	day	nit	d&n	day	การ	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	0	9	9	- 0	0	9	8	8	i	9	1	0	0	0
AVG top ht Kft	ł		2.8	i		*	l		*	i		2.8	i		*
AVG thickness Kft			.27				L		*	Ī		.27			*
AVG trap freq GHz			2.9			*			+			2.9			*
AVG lyr grd -N/Kft	Į		99	[*	•		*			99	í		*
AVG lyr base Kft			2.6	1		*	ì		*			2.6	l		*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCURRENCE	78	ARL	'	"	H-HH	AR	Al	PR-JI	JH	J	UL-S	EP	01	T-DE	:c
		day	nit	den	day	nıt	dkn	day	การ	d&n	day	nit	din	day	กาง	dån
8 to	19 Feet	15	15	15	10	9	10	19	22	21	19	17	18	13	11	12
10 to	20 Feet	26	25	26	29	28	28	29	31	38	24	23	23	21	28	20
20 to	30 Feel	29	_31	_ 30	36	39	38	28	26	27	24	26	25	27	33	38
30 to	48 Feet	18	28	19	18	21	26	14	13	13	17	20	19	22	25	24
49 10	50 Feet	6	5	5	4	3	3	3	2	2	7	7	7	16	7	9
50 to	60 Feer	2	1	_ 2	1	. 0	1	1	1	1	[_3	2	3	4	_ 2	3_
60 to	70 Feet	1	- 8	1	9	0	0	1	1	1	1	1	1	1	0	1
78 to	88 Feet	1	8	0	0	9	9	1	1	1	1	9	8	1	0	6
_ 80 to	90 Feet	0	. 0	6	e	. 6	9	1	0	0	9	9	9	9	6	0
90 to	100 Feet	0	9	8	0	8	0	0	1	1	0	0	6	Ð	8	0
above	100 Feet	3	5	2	1	Θ	8	4	4	4	4	Ξ	3	1 2	9	1
Hean he	ight Feet	27	25	26	23	23	_ 23	27	25	26	30	27	28	29	25	27

PRRAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit dan	day nit den	day nit dan	day nit din
% occur EL&SB dcts	9	9	0	9	9
% occur 2+ EL dets	1 0	6	0	0	8
AVG station H	315	316	314	316	314
AVG station -H/Kft	12	12	12	12	12
AVG sfc wind Kts	18 17 18	20 20 20	15 14 14	15 15 15	21 21 21

Specified location: 72 22 N 52 43 E (+) INDICATES INSUFFICIENT DATA Radiosonde source: 20744 72 22 N 52 43 E

Radiosonde station height: 52 Feet Surface obs source: MS252 65 00 N 5 00 E

PEPCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESH COM RANGES:

FREQUENCY	YEARL	Ÿ	Jf	RH-MF	ar .	AI	R-JI	JH	JI	JL-SE	P	Ü	CT-DI	EC
1	day nit	d&n	day	nit	dan	day	าit	dan	day	nit	dŧn	day	nit	d&n
100 MHz	8 6	0	0	0	0	¥	¥	÷	0	Ø	9	*	*	¥
1 GHz	3 2	2	1	0	1	¥	¥	•	5	3	4	*	*	ŧ
3 GHz	4 2	3	1	1	1	*	*	•	7	3	5	¥	*	+
6 GHz	7 4	5	2	1	1	*	¥	¥	11	6	9	+	*	*
10 GHz	29 29	29	24	25	24	¥	¥	*	35	34	34	*	*	Ŧ
20 GHz	59 62	60	68	64	62	±.	#	*	58	60	59	*	+	₹

SURFACE BASED DUCT SUMMARY:

SUMPHILE BHSED DOLL S	OUNDER!												
PARAMETER	YEARLY	1	JAN-M	AR	AF.	R-JI	JH :	JI	JL-SI	EP	00	CT-DI	EC
	day nit d	an d	ay nit	dan	day	กาเ	dan	day	nit	dkn	day	nit	dan
Percent occurrence	1 1	1	0 1	1	0	9	9	3	1	2	9	8	Ø
AVG thickness Kft		18		.08	i		*			.28	1		+
RVG trap freq GHz	2	.3		3.4	i		*			1.1	l		>
AVG lyr grd -N/Kft	2	£1		178			Ŧ			353			+

SOCIAL PROGRAMMENTA SOCIALISMO SOCIAL ALTERNATION OF THE SOCIAL SERVICE SERVIC

ELEVATED DUCT SURMARY:

PARAMETER		HRL		J	AN-MA	aR :	RF	R-J	JH	JI	JL-SI	P	00	CT-D	EC
	day	nit	d&n	day	nit	din	day	nit	dan	day	niţ	d&n	day	nit	dan
Percent occurrence	0	0	- 8	6	Ø	8	0		8	8	0	0	0	Ð	8
AVG top ht Kft	ĺ		1.8	İ		3.0	l		*			.52	ł		*
AVG thickness Kft			.27			.33	l		<u>+</u>			.22	<u> </u>		<u>+</u> _
AYG trap freq GHz			.75			. 39			*			1.1	I —		*
AVG lyr grd -N/Kft	İ		78	ł		84	l		*			71	l		*
AVG lyr base Ift	<u> </u>		1.6			2.8	<u> </u>		*			.39			<u> </u>

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PERCENT O	CCURRENCE	YE	ARLY	<u> </u>	JI	H-HE	18	AI	R-J	JH	Ji	JL-SI	P	00	T-DE	С
		day	nıt	dtn	day	nıt	d&n	day	nit	dan	day	nit	dŧn	day	nit	den
0 to 1	0 Feet	15	15	15	10	9	16	19	22	21	19	17	18	13	11	12
10 to 2	0 Feet	26	25	26	29	28	28	29	31	30	24	23	23	21	20	26
20 to 3	0 Feet	29	31	38	36	39	38	28	26	27	24	26	25	27	33	38
30 to 4	8 Feet	18	20	19	18	21	20	14	13	13	17	20	19	22	25	24
40 to 5	0 Feet	6	5	5	4	3	3	3	2	2	7	7	7	10	7	9
50 to 6	0 Feet	2	1	2	1	8	1	1	1	1	3	2	3	+	2	_ 3
60 to 7	0 Feet	1	0	1	8	0	0	1	1	1	1	:	1	1	9	1
70 to 8	0 Feet	1	9	9	9	0	0	1	1	1	1	0	9	1	0	9
88 10 9	0 Feet	0	9	8	9	6	8	1	0	8	0	9	0	0	8	0
90 to 1	00 Feet	e	9	0	0	8	- 0	3	1	1	0	0	8	в	8	8
above 1	00 Feet	3	2	2	1	6	Ø	4	4	4	4	2	3	2	9	1
Hean her	ght Feet	27	25	26	23	23	23	27	25	26	38	27	28	29	25	27

PARAMETER	YE	ARL'	7	J1	H-H	AP.	P.F	R-J	JH	J	JL-SI	EP	00	CT-D	EC
L	day	nit	den	day	PIE	dan	day	P12	den	day	nit	d&n	day	nıt	d&n
% occur ELLSB dcts			8	I		0			Ð			0			8
% occur 2+ EL dats			8	l		Ð			8			8	i		0
AVG station N	ļ		313	İ		310			313			318	i		311
AVG station -N/Kft			12	l		12			12	ļ		12	Į .		12
AVG sfc wind Kts	18	17	18	20	20	28	15	14	14	15	15	15	21	21	21

Specified location:

78 84 N 14 13 E (+) INDICATES INSUFFICIENT DATA

Radiosonde source: 20107 78 04 N 14 13 E Radiosonde station height: 59 Feet

Surface obs source: MS252 65 00 N 5 00 E

PERCENT OF	CORKENCE !	UF 2	MHHM	ren :	SUKF	HUE-	10-5	UKFH	LE KI	חשתא	<u> (E31)</u>	<u> ~ E U N</u>	KHIN	uE5:		
FREQU	ENCY	Y	ERRL'	Y	1	ลห-ห	AR	Al	PR-JI	UN	_ 3	UL-SI	EP	01	CT-DI	EC
L		day	nit	d&n	day	nit	d&n	day	nit	d&n	day	กาง	<u>d£n</u>	day	<u>ni t</u>	dŁn
100 H	Hz	_0	0	9	*	+	*	*	*	*	*	*	*	0	8	- 8
1 6	Hz	2	8	1	*	*	*	*	*	*	*	*	*	2	0	1
<u>3 G</u>	Hz	3	. 1	2	+	*		<u>L</u> +_		+		+_	+	3	1	_ 2
6 G	Hz	8	3	6	*	+	*	*	*	*	*	*	÷	8	3	- 6
18 G	Hz	48	35	38	*	*	*	[*	ŧ	*	*	*	*	40	35	38
20 G	Hz	67	68	67		*	*	+			₩.	*	*	l 67	68	67

CUREACE PACES SUCT CHMMADY.

SUFFRIE BRSED DOCT 3	SURENCE I :													
PARAMETER	YEARL	Y	J	AN-MA	18	AF	パール	JH	31	JL-SI	P	Ö	CT-DI	EC
	day nit	dkn	day	nit	d&n	day	nit	d&n	day	n <u>i t</u>	d&n	day	nit	d&n
Percent occurrence	8 8	9	e	- 0	0	е	0	- 0	0	9	8	1	1	1
AVG thickness Kft	l .	.18	i		•	l		*	1		•	1		. 18
RVG trap freq GHz	ĺ	4.9	[*	1		±	1		*			4.9
AVG lyr grd -N/Kft	!	143	i .		*	L.			i		*	l		143

<u>ELEVATED DUCT SUMMAN</u>	<u> </u>														
PARAMETER	Yŧ	ARL	Y	J	AH-M	RR	Ri	PR-J	UN	J	UL∽Si	EP	0	CT-D	EC
	day	nit	d&n	day	nit	dan	day	nit	<u>d&n</u>	day	nit	d&n	day	<u>nit</u>	dan
Percent occurrence	0	1	8	0	- 0	-6	-0	1	i	0	- 0	e	8	1	1
RVG top ht Kft			2.2	J		.29	}		4.2	1		•	J		2.2
AVG thickness Kft	l		.28			. 18	L _		. 67	l		. 44			.11
AVG trap freq GHz			2.8			1.8	1		7.4			.36			1.7
AVG lyr grd -N/Kft	ĺ		61	1		54	ŧ		48	1		*	ſ		82
AVG lyr base Kft	<u> </u>		2.6			.13	L _		4.1	1		4.1			2.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCURRENCE	Ϋ́I	EARL	7	J	RH-M	1R	AI	PR-J	ИÚ	Ji	JL-SI	P .	0	CT-DE	EC
		day	nít	dŁn	day	nit	d&n	day	nit	d&n	day	nit	dīn	day	nit	dan
0 to	10 Feet	15	15	15	10	9	10	19	22	21	19	17	18	13	11	12
18 to	20 Feet	26	25	26	29	29	28	29	31	38	24	23	23	21	28	28
20 to	38 Feet	29	31	38	36	39	38	28	26	27	24	25	25	27	33	30
30 to	48 Feet	18	29	19	18	21	20	14	13	13	17	20	19	22	25	24
48 to	50 Feet	6	5	5	4	3	3	3	2	2	7	7	7	10	7	9
_ 50 to	60 Feet	2	1	2	1	9	1	:	1	1	3	2	3	4	2	. 3
60 to	70 Feet	1	8	1	9	Θ	0	1	1	1	1	1	1	1	8	1
70 to	80 Feet	1	9	9	9	0	9	1	1	1	1	8	9	1	9	8
80 to	98 Feet	9		8	_ 0	9	8	1	0	6	8	9	0	3		
98 to	100 Feet	ð	0	0	9	в	Θ	8	1	1	0	0	Ø	0	8	8
above	100 Feet	Jз	2	2	1	9	8] 4	4	4] 4	2	3	2	8	1
Hean he	eight Feet	27	25	26	_23	_23	23	27	25	26	38	27	28	29	25	27

PARAMETER	YEARL		JAI	H-MAR	APR-J	UN	JU	L-SEP	0	CT-DI	EC
L	day nit	din	day	nit dan	day nit	din	day	nit dan	day	nit	<u>d&n</u>
% occur ELESB dcts		-0		8		- 0	_	8	i		Ð
% occur 2+ EL dcts		8	ŀ	8	•	0	l	9	1		8
AVG station N		312	!	318	j	312	j	315	l		310
AVG station -N/Kft		11		11	ļ	11	l	11	i		11
AVG sfc uind Kts	18 17	18	28	20 20	15 14	14	15	15 15	21	21	21

74 31 N 19 01 E (*) INDICATES INSUFFICIENT DATE Specified location: 74 31 N 19 01 E Radiosonde source : 1028

Radiosonde station height: 59 Feet Surface obs source: MS252 65 00 N 5 00 E

PERCENT	OCCURPENCE	0F	ENHANCED	SURFACE-	TO-SURFACE	RADAR/ESH/COM	RANGES:

- 2	PREELIT OF CONTENEE	<u> </u>		<u> </u>	JUN 1 .					12	2011	<u> </u>	454111	ara.		
Į	FREQUENCY	Y	ERRL'	Υ	Ji	an-n f	1R	AF	R-JU	JH	Jŧ	JL-SI	P	ō	CT-DI	EC
ı		day	nit	d&n	day	nit	d&n	day	nit	dan	day	nit	din	day	nit	dŧn
I	100 HHz	8	. 0	0	0	- 6	0	0	. 8	6	0	9	0	*	#	+
ı	1 GHz	3	2	3	1	8	1	4	4	4	4	3	3			*
1	3 GHz	4	3	3	1	0	1	5_	.5	5	_ 5	3	4	*	*	*
ı	6 GHz	7	- 5	- 6	3	- 0	2	8	7	8	9	6	8	*	*	*
١	10 GHz	28	26	27	24	24	24	25	22	23	34	33	34	*		*
1	20 GHz	57	_ 57	57	60	63	62	52	48	59	57	68	<u>58</u>	*_	+	#

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL'	Υ	J	H-HR	AR	A.	PR-JI	JN	Ji	UL-SI	P	0	CT-DI	EC
	day	nit	d&n	day	nit	dŁn	day	nit	d&n	day	nit	d&n	day	nit	din
Percent occurrence	1	9	1	1	0	1	1	8	1	1	1	1	0	0	9
AVG thickness Kft	l		.13	1		. 15	ļ		. 89			. 15	ł		
AVG trap freq GHz			4.8	ĺ		3.0			5.9	ŀ		3.2			-
AVG lyr and -H/Kft	1		109	ļ		113	ı		99			114	ļ		#

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Υ	3	RH-MA	AR	A!	22-J	ÜH	JI	JL-S	EP.	0	CT-DI	EC _
	day	nit	dŁn	day	nit	d&n	day	nit	d&n	day	nit	den	day	nit	din
Percent occurrence	1	$\overline{}$	1	9	Ð	8	1	- 2	2	1	3	2	8	0	8
AVG top ht Kft			3.2	l		3.5	•		2.6	i		3.2			3.5
AVG thickness Kft		_	.26			. 15	l		.22	L		.26	ļ	_	.39
AYG trap freq GHz			1.1			1.6			1.3			1.3			.33
AVG lyr grd -N/Kft	i		61	1		56	l		60	1		52	1		74
AVG lyr base Kft	l		3.0	i		3.4	i		2.4	i i		2.9	Į.		3.3

EVAPO	K FI I	100	DUCT HIS	3100	· nn	IN P	- K C-	11 0	COK	<u> </u>	•							
PERC	ENT	0001	JRRENCE	Y	ARL'	Y	J	คห-หเ	RR	AI	R-JI	JN	- 31	JL-SI	EP	- 01	<u> </u>	EC
L				day	nit	d&n	day	nit	<u>dån</u>	day	nit	d&r	day	nit	d&n	day	nit	d&n
. 6	ŧo	16	Feet	15	15	15	10	9	10	19	22	21	19	17	18	13	11	12
10	to	26	Feet	26	25	26	29	28	28	29	31	39	24	23	23	21	20	28
28	10	30	Feet	29	31	30	36	39	38	28	26	27	24	26	25	27	33	38
30	to	48	Feet	18	26	19	18	21	20	14	13	13	17	20	19	22	25	24
40	10	59	Feet	6	5	5	4	3	ઉ	3	2	2	7	7	7	10	7	9
<u>59</u>	to	60	Feet	2	1	2	1	8	. 1	_1_1	1	1	3	2	3	4	2	3
68	to	70	Feet	1	ð	1	6	9	อ	1	1	1	1	1	1	1	- 9	1
79	to	88	Feet	1	9	9	6	0	0	1	1	1	l i	8	8	l 1	9	9
_ 80	to	90	Feet	9	0	8	9	. 8	8	_ 1	9	8	. 0	Θ	0	9	. 0	
90	to	100	Feet	0	8	8	0	8	0	8	1	1	8	8	8	9	8	9
! at	ove	100	Feet	3	2	2	1	6	Θ	4	4	4	4	2	3	2	9	1
Hea	n h	eighi	t Feet	27	25	26	i 23	23	23	27	25	26	1 30	27	28	29	25	27

PARAMETER	YE	ARL'	Υ	JF	H-H	RR	AF	R-JI	אנ	Jl	L-SE	P	00	T-DI	EC
	day	nit	dŁn	day	nit	dŁn	day	nit	d&n	day	nıt	dŧn	day	nit	din
% occur ELLSB dcts			Θ			Θ			0			0			0
% occur 2+ EL dcts			8			0	Į		8			9	ŀ		8
AVG station N			314	ŀ		311			314	1		319	ţ		311
AVG station -N/Kft			12	1		12	i		12			12	l		12
AVG sec wind Kis	18	17	18	20	20	20	15	14	14	15	15	15	21	21	21

Specified location: 80 80 N 85 55 W (*) INDICATES INSUFFICIENT DATA

Radiosonde source: 72917 80 80 N 85 55 W Radiosonde station height: 38 Feet

Surface obs source: MS220 65 00 N 35 00 N

PERCENT ACCURRENCE OF ENHANCED SUPPOCE-TO-SUPPOCE PARAP/FOM/COM PANCES.

PERCENT OCCORRENCE	OF E	MARIN	LED .	SURFE	ICE-	0-3	JAFA	CK	IDNE .	E3114	COIL	L'HIST	<u> , , , , , , , , , , , , , , , , , , ,</u>		
FREQUENCY	Y	EARL'	Y	Ji	JH-HI	ar T	RI	PR-J	JH	7	JL-SI	EP_	- 0	CT-DE	<u> </u>
L	day	nit	den	day	nit	dŧn	day	nit	dkn	day	nit	d&n	day	nit	d&n
100 MHz	8	Ø	9	0	0	- 8	0	0	- 0	0	0	0	9	- 0	6
1 GHz] 3	1	2	1	1	1	3	2	3	5	2	4	1	1	1
3 GHz	3	2	2	_1	1_	1	4	2	3	7	2	4	1	1	1
6 GHz	6	3	4	2	2	2	6	5	5	16	3	7	4	3	4
10 GHz	23	21	22	17	17	17	18	16	17	28	22	25	29	30	30
28 GHz	49	51	58	59	51	59	41	43	42	47	48	47	59	64	61

CUDENCE BOCER BUCK CHAMBOV.

PORTHUE BUSED DOCK	SUNNERT				
PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
]	day nit dan	day nit dan	day nit dên	day nit dan	day nit dan
Percent occurrence	0 1 1	1 1 1	0 1 1	0 8 0	8 1 1
RVG thickness Kft	.14	.19	,12	-11	.13
AVG trap freq GHz	4.8	5.9	3.5	4.3	2.3
AVG lyr grd -H/Kft	208	235	325	189	84

ELEVATED DUCT SUMMARY:

ECEANIED DOCT SOUDD	<u> </u>														
PARAMETER	Y	EARL	Ÿ	J	RN-H	R	8	-R-J	บพิ	_ 11	リレー51	EF	0	CT-DE	EC
	day	nit	din	day	nit	dŁn	day	nit	d&n	day	nit	den	day	nit	den
Percent occurrence	1	1	1	1	2	2	2	1	2	1	2	2	3	0	1
AVG top ht Kft	ŀ		2.8			1.4	i		4.6	l		4.4	İ		.64
AYG thickness Kft			. 15			.10	l	_	. 15	L .	_	.17	l_	_	.18
AVG trap freq GHz			3.0			5.8			2.1			2.0			2.8
AYG lyr grd -N/Kft	Į.		58	l		48	i		56	l		81	ı		48
AVG lyr base Kft			2.6	(1.3	ĺ		4.5	ĺ		4.4			.46

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

EANLORMITON DOC! UTS	,,,,,,	KID!!		KCE	11 00	CUR	CUCE	• •							
PERCENT OCCURRENCE	Y	EARLY	7	7	AH-HE	1R	AI	R-J	JH	7	JL-SE	P	00	T-DE	C
	day	nit	din	day	nit	d&n	day	nit	din	day	nit	ರ£n	day	nit	dan
0 to 10 Feet	24	22	23	28	20	20	29	27	28	29	25	27	17	16	17
10 to 20 Feet	27	27	27	38	38	30	31	39	31	24	27	26	24	28	22
20 to 30 Feet	26	39	28	33	34	33	23_	28	25	19	26	22	30	_33	_32
30 to 40 Feet	14	15	14	13	14	13	9	9	- 9	13	16	15	20	22	21
40 to 50 Feet	4	3	3	3	1	2	3	2	2	5	3	4	5	6	5
58 to 69 Feet	1	1	1	_0	8	9	1	. 1	1	2	_ 1	1	2	_ 2	2_
60 to 70 Feet	1	0	9	0	- 0	0	1	1	1	1	9	1	0	8	0
78 to 80 Feet	0	8	8	0	8	8	0	1	Ð	1	9	9	8	9	8
80_to 98 Feet	_ 0	9	0	_0	0	_ 0	8	8	0	1	. 0	9	8	_ 8	в
98 to 188 Feet	8	е	8	Ø	0	0	Θ	0	0	1	0	e	0	0	8
above 100 Feet	3	1	2	1	1	1	3	2	2	5	2	4	1	1	1
Mean height Feet	23	21	22	21	28	28	22	28	21	27	22	24	24	24	24

PARAMETER	YEARLY	JAN-KAR	APR-JUN	JUL-SEP	OCT-DEC
L	day nit dan	day nit din	day nit dan	day nit dan	day nit dan
% occur EL&SB dcts	6	0	- 0	9	0
% occur 2+ EL dcts	8	8	6	9	8
AVG station H	319	328	314	318	323
AVG station -N/Kft	13	15	12	11	14
AVG Sec wind Kts	18 18 18	21 22 22	16 16 16	13 15 14	21 21 21

5 00 S 5 66 H (*) INDICATES INSUFFICIENT DATA Specified location: 7 58 S Radiosonde source : 61982 14 24 H Radiosonde station height: 282 Feet Surface obs source: MS300 5 00 S

CONTRACTOR CONTRACTOR CONTRACTOR

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PEPCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

Cr. Civi (JCC OFF CHCE	<u> </u>	****		30 KT 1		. 0 . 50	7×1 110	- L N	IDITE.	LUIT	<u> </u>	C11111	<u></u>		
FREC	DUENCY	Y	EARL'	¥ -	Ji	AH-HI	R.	- Al	PR-J	אנ	Jŧ	JL-SI	EP	00	CT-DI	EC
		day	nit	dan	day	nít	d&n	day	nit	dŁn	day	nit	dŧn	day	nit	dŧn
100	hHz	9	8	0	0	θ	8	0	Ø	0	8	1	8	0	9	8
1	GHz	48	12	26	37	12	24	52	17	34	41	11	26	30	7	18
. 3	GHZ	49	18	34	44	18	31	66	29	47	51	16	33	36	10	23
ε	GHz	76	55	65	73	57	65	89	74	81	76	45	61	65	44	54
16	GHZ	93	88	90	93	99	91	96	93	95	91	80	86	90	87	89
20	GHz	1 96	95	96	97	96	96	97	97	97	95	92	94	96	96	96

SURFACE BASED DUCT SUMMARY:

CONTRACTOR OF THE CONTRACTOR O

PARAMETER	<u>'Y</u>	EARL	Y	3	H-KA	RR	AI	PR-J	אט	J	UL-S	EP	G	CT-D	EC
	day	nit	din	day	nit	d&n	day	nit	dŁn	day	nıt	dŁn	day	nit	din
Percent occurrence	4	3	3	6	4	5	4	3	4	2	4	3	3	1	2
AVG thickness Kft	Į .		. 16	1		.14	l		. 18			.21			. 11
AVG trap freq GHz			2.7	i		3.0	l		1.8	l		.86	l		5.1
AVG lyr and -N/kft			219			200			102	l		97	1		475

PARAMETER	Y	EARL'	•	J	คพ-หเ	R	A!	PR-JI	UN	Jŧ	ルー51	P	ΰ	CT-DS	EC
	day	nit	d&n	day	nit	d&n	day	ni t	dan	day	nit	dŁn	day	nit	din
Percent occurrence	50	45	48	43	43	43	43	42	43	59	50	55	56	46	51
AVG top ht Kft	i		5.5	ł		5.2	ı		5.8	l		5.7			5.1
AVG thickness Kft			.64			.59	1		. 55			.73	I		.68
AVG trap freq GHz			.18			.19			.23			.13			.16
AVG lyr and -N/Kft	l		66	ł		66			64	ŀ		67	ı		66
AVG lyr base Kft	l		5.0	i		4.8	l		5.5	1		5.2	l .		4.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT OCCURREN	E Y	EARL	Y	J	AK-HI	RP.	Į R∶	PR-J	UN	31	UL-SI	EP	J Đi	CT-DI	EC
	day	nit	dla	day	nit	dŁn	day	nit	dŁn	day	nit	d&n	day	nit	din
0 to 10 Feet	2	2	2	2	1	1	2	1	2	2	3	3	2	1	5
10 to 20 Feet	2	3	2	2	3	2	1	2	1	2	5	4	2	3	3
20 to 30 Feet	4	8	- 6	4	6	_ 5	2	4	3	4	12	8	i 5	9	7
30 to 40 Feet	7	14	10	7	13	10	3	7	5	7	18	12	11	18	15
40 to 50 Feet	111	19	15	13	21	17	4	13	9	9	18	14	15	25	20
50 to 60 Feet	11	18	14	14	19	16	6	_17	12	9	15	12	14	19	17
60 to 70 Feet	7 9	12	10	9	12	11	8	16	12	8	9	9	10	18	10
70 to 80 Feet	7	' 7	7	7	7	7	9	12	10	7	6	6	6	5	5
80 to 90 Fezt	5	4	5	4	4	4	8	8	8	6	2	4	4	2	3
98 to 188 Feet	4	2	3	3	2	3	6	4	5	4	1	3	2	1	2
above 100 Feet	39	11	25	36	10	23	51	16	33	41	9	25	29	6	18
Hean height Fee	102	61	82	98	63	89	118	74	96	184	55	88	87	54	70

PRESER		HKL			444-111			K-71			ルーショ			וערוט	
	day	nit	din	day	nıt	dŁn	day	nıt	dŁn	day	nit	đen	day	nit	d&n
% occur EL&SB dcts			2			2			2			1			i
% occur 2+ EL dcts			9	ĺ		8	l		9			9	ĺ		9
AVG station N			356	1		363	ļ.		368			347	İ		353
AVG station -N/Kft			15	ŀ		1€	1		16			14			14
AVG sfc wind kes	12	11	11	18	10	10	13	12	13	12	11	11	11	11	11

Specified location: 7 58 S 14 24 H (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 61902 7 58 S 14 24 H

Radiosonde station height: 282 Feet Surface obs source: MS301 5 00 S 15 00 H

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	Y	EARL'	Y	Ji	RH-M	R	AI	R-J	JH	31	JL-SI	P	<u> </u>	T-DI	EC
	Gay	nit	dkn	day	nıt	dan	day	nit	d£n	day	nit.	d&n	day	nit	d&n
100 MHz	В	0	9	9	- 0	0	9	0	0	θ	1	- 8	0	9	8
1 GHz	47	9	28	48	10	29	57	12	34	46	9	27	39	5	22
3 GHz	57	15	_36	58	16	37	68	21	44	56	15	35	49	10	29
6 GHz	82	59	71	82	61	71	88	69	78	89	55	67	78	53	65
10 GHz	92	90	91	92	91	92	95	92	94	91	87	89	91	91	91
20_GHz	95	97	_95	94	97	96	97	97	97	94	96	95	95	98	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	J	AN-M	P.R	Al	PR-JI	אַנ	J	UL-SI	EΡ	0	CT-D	EC
	day	nit	d&n	day	nit	dŁn	day	nit	d&n	day	nit	din	day	nit.	₫ <u>&</u> n
Percent occurrence	4	3	3	6	4	5	4	3	4	2	4	_ 3	3	1	2
AVG thickness Kft			.16	ł		. 14	1		.18			.21	1		.11
AVG trap freq GHz			2.7	l		3.0	Ī		1.8			.86	ļ		5.1
AVG lyn grd -N/Kft	L		219	<u> </u>		200	_		192			97	L		475

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY	JAN-HAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit din	day nit din	day nit din	day nit dan	day nit dan
Percent occurrence	59 45 48	43 43 43	43 42 43	59 50 55	36 46 51
AVG top ht Kft	5.5	5.2	5.8	5.7	5.1
AVG thickness Kft	.64	59	55	73	.68
AVG trap freq GHz	.18	.19	.23	.13	.16
RYG Tyr erd -N/Kft	66	66	64	67	66
AVG lyr base Kft	5.8	4.8	5,5	5.2	4.6

EVAPORATION BUCT HISTOGRAM IN PERCENT OCCURRENCE:

EYMPU	KH I	LUN	BUC! HIS	<u> </u>	KHA :	IN PE	KCE	<u> </u>	CCUR	RENU	:: <u> </u>							
PERC	EHT	OCC	URREHCE	Y	EARLY	7	7	AN-M	RR	AI	PR-JI	JH	J	UL-SI	EP	Č	CT-DI	EC _
				day	nit	din	day	nit	dån	day	nit	d&n	day	nit	dŁn	day	nit	din
0	to	10	Feet	4	1	3	4	1	3	2	1	2	5	2	3	4	1	3
19	to	28	Feet	1	2	2	2	3	2	1	2	2	1	2	2	2	1	1
_20	to	30	Feet	_3	7	5	_ 2	6	4	1	_ 6	3	3	9	6	4	7	5
38	to	49	Feet	4	12	8	4	9	7	3	7	- 5	4	15	9	6	16	1
48	to	50	Feet	7	19	13	7	21	14	5	16	11	7	18	13	7	22	15
58	to	60	Feet	9	21	15	_19	24	17	7	19	13	9	18	14	10	21	15
60	10	78	Feet	9	15	12	8	14	11	7	16	12	9	14	11	10	14	1.2
70	to	80	Feet	7	9	8	6	7	7	7	14	18	7	8	8	9	8	:3
89	to	98	Feet	6	4	5	5	3	4	6	6	_ 6	5	3	4	6	4	5
90	to	100	Feet	4	2	3	4	2	3	4	3	4	5	2	3	4	2	3
ab	ove	188	Feet	47	8	27	47	9	28	56	11	33	45	7	26	38	4	21
Hear	n h	eigh	Feet	112	60	86	114	61	88	124	66	95	109	57	83	181	56	78

PARAMETER	ΥE	ARL	Ÿ	Jf	!H-H	AR	AF	R-JI	JN	7	JL-Si	EP	Ö	T-DE	C
	day	nit	₫&n	day	nit	den	day	nit	d&n	day	nit	din	day	nit	ժՀո
% occur EL&SB dcts			2			2			5			1			1
% occur 2+ EL dcts			9	İ		8	ł		9			9	1		9
AVG station N			356	l		363	1		368	l		347			323
AVG station -N/Kft			15	ĺ		16	ĺ		16			14	ĺ		14
AVG sfc wind Kts	13	12	13	12	12	12	13	13	13	13	12	13	13	13	13

Specified location: 3 51 S 32 25 H (*) INDICATES INSUFFICIENT DATA Radiosonde source: 82408 3 51 S 32 25 H

Radiosonde station height: 148 Feet

Surface obs source: MS303 5 00 S 35 00 H

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESH/COM PANGES:

FREQ	UENCY	Y	EARL'	Υ	J	AN-H	AR	A	PR-J	N	JI	UL-SI	EP	ŏ	CT-DI	EC
		day	nit	d&n	day	nit	d£n	day	nit	dŧn	day	nit	dŁn	day	nit	d&n
100	MHZ	1	1	1	T-	*	-	+	1		1	1	1	+	+	*
1	GHz	48	12	26	ı .		*	[*	*	-	48	12	26	÷	*	*
3	GHz	j 54	22	38		*	*	*	•	*	54	22	38	*	*	*
- 6	GHz	83	69	76	•	*	*		*	#	83	69	76	+	*	*
10	GHz	94	92	93		*		*	*	*	94	92	93	*	*	*
28	GHz	96	97	96	l •		#	l +	#	#	96	97	96	*	*	*

SURFACE BASED DUCT SUMKARY:

PARAMETER	YI	EARL'	Y	J	AN-M	AR	Al	R-J	UN	J	JL-SI	ΕP	01	CT-DI	EC
	day	nit	d&n	day	nit	d£n	day	nit	d&n	day	nıt	dŁn	day	nıt	dan
Percent occurrence	3	5	4	+	*	*	*	*	*	6	16	8	8	- 6	8
AVG thickness Kft	1		.39			*	1		*	l		.39	i		*
AVG trap freq GHz	1		1.1	ĺ		*	i		*	i		1.1	ı		*
AVG lyr grd -N/Kft			78	i		*	<u> </u>		•	!		78			•

ELEVATED DUCT SUHMARY:

PARAMETER	Y	EARL'	Ÿ	J	H-KA	AR	RI	PR-J	UN	J	JL-SI	EΡ	Ö	T-DI	EC
	day	nit	din	day	nıt	dan	day	nit	dŁn	day	กาใ	d&n	day	nit	d&n
Percent occurrence	34	16	25	*	*	*	+	*	*	30	32	31	38	0	19
AVG top ht Kft	İ		5.5	İ		*	l			l		5.8			5.3
AVG thickness Kft	i		. 44	ļ		*			#	i		.58	ŀ		.30
AVG trap freq GHz			. 65			*			*			.32			1.0
AVG lyr grd -N/Kft			56	ł		*	l			l		60	ł		52
AVG lyr base Kft	Ì		5.2	j			l		*	1		5.4	i .		5.0

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EVAPOPATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCURREN	Œ	YE	:ARL1	ľ	7	AH-H	AR	Á	PR-JI	אנ	J	JL-SI	P	01	CT-DE	C
			ay	nit	d&n	day	nıt	d&n	day	nit	d&n	day	nit	dŁn	day	nit	dan
0 to	10 Feet	Т	2	1	2	3	1		2	1	1	2	1	2	3	2	2
18 to	20 Feet	- [2	3	2	2	3	3	2	3	2	1	2	2	1	2	1
20 to	30 Feet		3	5	4	4	7	6	4	- 6	5	2	5	4	2	_4	. 3
30 to	40 Feet	\neg	5	10	7	5	11	8	6	11	9	4	9	6	3	8	5
40 to	58 Feet	1	8	19	13	9	21	15	11	19	15	7	17	12	6	18	12
50 to	60 Feet		10	21	16	10	21	16	11	22	16	10	21	15	9	21	. 15
60 to	78 Feet	Т	10	16	13	10	13	12	9	15	12	10	17	14	10	18	14
70 to	80 Feet		9	10	9	8	7	7	8	9	8	10	12	11	10	11	11
38 10	98 Feet	i_	_7	4	6	6	4	5	6	4	5	8	5	7	7	5	6
90 to	100 Feet	Т	5	3	4	4	2	3	5	3	4	6	3	5	6	2	4
above	100 Feet	Į.	39	8	24	39	9	24	36	8	22	39	8	23	43	8	25
Hean he	ight Fee	1	62	62	82	102	61	82	98	60	79	108	62	81	107	63	85

PHKHTEIEK	1 YE	HKL	r	J (HM-M	HR	H	パーコリ	JN	JU	1F-21	EP .	į o	CT-DI	EC
	day	nit	din	day	nit	den	day	กาเ	din	day	nit	din	day	nit	den
% occur ELESB dcts			1			0			0			3			- 0
% occur 2+ EL dcts	1		1	i		9	1		2			2	l		Ð
AVG station N	i		372	1		•	!		•	i		372	l		371
RYG station -N/Kft	ı		18	1		4	l		*	l		18	!		17
AVG sfc wind Kts	13	12	12	11	18	_ 11	12	11	11	15	14	14	13	12	13

Specified location: 3 43 S 38 33 W (*) INDICATES INSUFFICIENT DATA

Radiosunde source: 82397 3 43 S 38 33 H Radiosonde station height: 62 Feet

Surface obs source: MS303 5 00 S 35 00 M

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

	- Checkil Occopyrence	<u> </u>			2011	110.6	10-3	OKI III		I DIII	LOIL	CO.1	VIIII	<u> </u>		
ļ	FREQUENCY	Y	EARL	Υ	J	AH-H	AR	AI	PR-JI	JH .	JU	IL-SE	P	00	T-DE	EC
ļ		day	nit	dan	day	nit	dŁn	day	nit	d£n	day	nit	din	day	nit	d&n
1	100 MHz	1	- 0	- 0		*	+		*	÷	9	9	9	1	-0	0
	1 GHz	42	8	25	#	*	*	*	*	*	39	8	24	45	8	26
ļ	3 GHz	55	16	36		*	*	*	*	•	53	17	35	58	15	36
Ì	6 GHz	84	66	75	1	*	*	*	*	*	83	66	75	85	66	76
	10 GHz	94	92	93		*	•		*		93	92	93	94	93	93
1	20 GHz	96	97	96		*			*		96	97	96	96	97	96

SURFACE BASED DUCT SUMMARY:

OUNT HOL DINGLE TOUT			_											
PARAMETER	YEARLY	,	J	RH-HI	R .	- Al	R-J	HE	_ 3i	JL-SI	P	0	CT-DI	EC
	day nit	d&n	day	nit	dkn	day	nit	d&n	day	nit	dan	day	กาะ	dan
Percent occurrence	4 1	2	*	*	*	*	*	*	1	2	2	6	8	3
AVG thickness Kft		.27	l		*			#	ŀ		.28	l		.26
AVG trap freq GHz		.86	[*						1.1	1		.62
AVG lyr grd -N/Kft		98	L		*	L		*	L		103	L		94

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y—	5	AN-M	AR	AI	R-J	UN	31	JL-SI	EP	ĕ	CT-DI	EC
	day	nit	d&n	day	nit	dkn	day	nit	dŁn	day	nit	d&n	day	nit	dtn
Percent occurrence	17	16	16	•	+	*	+	*	*	25	31	28	9	- 6	5
AVG top ht Kft			5.2			*			*	1		5.3	l		5.2
AVG thickness Kft	i		. 54				ì		*	l		. 44			. 64
RYG trap freq GHz			.35			+			*			.56			.14
AVG lyr grd -N/Kft			69	ĺ			{		*	ĺ		56			82
AVG lyr base Kft	ł		4.9	1			l			ŀ		4.9	1		4.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURREN	CE Y	EARL	Y.	31	N-H	R	AF	R-J	JN	J	UL-SI	EP	00	T-DE	C
	day	nit	dŁn	day	nit	din	day	nit	dŁn	day	nit	d&n	day	nit	dtn
0 to 10 Feet	2	1	2	3	1	2	2	1	1	2	1	2	3	2	2
18 to 20 Feet	2	3	2	2	3	3	2	3	2	1	2	2	1	2	1
28 to 38 Feet	3	_6	4	4	7	_ 6	4	_ 6	5	_ 2	5	4	_2	4	3
38 to 48 Feet	5	10	7	5	11	8	6	11	9	4	- 9	6	3	8	6
48 to 58 Feet	8	19	13	9	21	15	11	19	15	7	17	12	6	18	12
50 to 60 Feet	10	21	16	10	21	16	11	_22	_16	18	_21	15	<u> </u> 9	21	15
60 to 70 Feet	10	16	13	16	13	12	9	15	12	10	17	14	18	18	14
70 to 88 Feet	9	10	9	8	7	7	8	9	8	10	12	11	18	11	11
80 to 90 Feet		4	6	6	4	_ 5	6	_ 4	_ 5	8	_ 5	7	77	5	_6
90 to 100 Feet	• 5	3	4	4	2	3	5	3	4	6	3	- 5	6	2	4
aboue 180 Feet	39	8	24	39	9	24	36	3	22	39	8	23	43	8	25
Mean height Fee	182	62	82	102	61	_ 82	98	_68	79	198	62	81	107	63	85

PARAMETER	YE	ARL	7	Ji	H-HF	iR	RP	R-JU	JH	7	JL-SE	EP	ŏ	T-DI	EC
	day	nit	dŧn	day	nit	din	day	nit	din	day	nit	d&n	day	nıt	din
% occur EL&SB dcts			0			0			0			8			0
% occur 2+ EL dcts			2			0			8			3			7
RVG station N			372						•			370	ĺ		373
AVG station -N/Kft	ļ		16			•	ĺ		•	l		17			15
AVG sfc usnd Kts	13	12	12	11	10	11	12	11	11	_15	14	14	13	12	13

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Š,

Radiosonde source : 82599 5 55 S 35 15 H

Radiosonde station height: 161 Feet

5 00 S Surface obs source: MS303 35 00 H

PEPCENT OCCUPRENCE OF ENHANCED SUPERCE-TO-SUPERCE PADAR/ESM/COM RANGES:

	PULLING DUCONNENCE	OF E	mm	CED .	JUNF	100	0-3	URFRI	<u> </u>	IDIT!	E 311	COIL	Ann	343.		
1	FREQUENCY	YI	ARL'	Υ	JI	H-HE	R.	AI	PR-JI	JH -	3(JL-SI	P	0.0	CT-DI	EC
L		day	nit	d&n	day	nit	dŁn	day	n i s	d&n	day	nit	d&n	day	nit	dkn
	100 MHz	3	0	2	3	9	2	2	0	1	3	9	- 2	4	8	2
1	1 GHz	47	8	28	47	9	28	42	8	25	46	8	27	53	8	31
L	3_GHz	60	15	_38	68	15	37	55	15	35	68	16	38	67	15	41
Г	6 GHz	84	62	73	83	56	69	80	60	70	86	66	76	89	66	78
ı	10 GHz	94	91	93	94	88	91	94	98	92	95	92	93	96	93	94
L	20 GHz	97	96	97	97	95	96	97	96	96	97	97	97	97	97	97

SURFACE BASED DUCT	SUMM	ARY:									_				
PARAMETER	Y	EARL'	Y	J	AN-MI	1R	B1	R-J	UN	7	リレーち	P	0	CT-DI	EÇ
	day	nıt	d&n	day	nit	dan	day	nit	dkn	day	nit	d&n	day	nit	d&n
Percent occurrence	28	8	14	35	0	18	28	8	10	21	0	11	37	0	19
AVG thickness Kft	1		.24	Į.		.17	Į.		.24	i		.33	ł		.24
AVG trap freq GHz	I		1.2			1.8	l		1.1	ŀ		.67	l		1.1
RVG lyr grd -N/Kft	1		86	l		99	l		76	ļ		98	l		73

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Υ	J	ลห-หเ	38	A)	R-JI	JK .	31	JL-SE	P	ō	T-DE	C
	day	nit	d&n	day	กiเ	d&n	day	nit	d&n	day	nit	dŧn	day	nit	dan
Percent occurrence	31	- 2	16	21	0	11	29	Ø	15	35	6	21	37	9	19
AVG top ht Kft			5.9	1		6.6	!		6.1	1		5.5	l		5.6
AVG thickness Kft			.43	i		. 47	i		.37			.46	ļ.		.44
AVG trap freq GHz			.60			.46			1.1			.46			.37
AVG lyr grd -N/Kft			58	l		61	l		54	l		60	l		57
AVG lyr base Kfs	Ī		5.6	Į		6.2	i		5.8	1		5.1	l		5.3

EVAPORATION DUCT HISTOGRAM IN PEPCENT OCCURRENCE:

PERCENT	OCCI	JRRENCE	Y	EARL	8	J	คห-หเ	AR	AI	R-JI	JH	Jŧ	JL-SI	EΡ	0	CT-DI	EC
			day	nıt	3೬၈	day	nit	dan	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to	10	Feet	2	1	2	3	1	2	2	1	1	2	1	2	3	2	
18 to	28	Feet	2	3	2	2	3	3	2	3	2	1	2	2	1	2	1
28 to	30	Feet	3	6	4	- 4	7	6	4.	_ 6	5	j _2	5	4	2	4	3
30 to	40	Fee:	5	10	7	5	11	8	6	11	9	4	9	6	3	8	6
40 to	50	Feet	8	19	13	9	21	15	11	19	15	7	17	12	6	18	12
58 10	<u>5</u> 0	Feet	10	21	16	_18	21	16	11	_22	16	10	21	15	9	21	15
60 to	70	Feet	10	16	13	18	13	12	9	15	12	10	17	14	10	18	14
78 to	89	Feet	9	10	9	8	7	7	8	9	8	10	12	11	10	11	11
80 to	90	Feet	_ 7	4	6	6	4	5	6	_ 4	5	8	5	7	7	5	6
98 to	100	Feet	5	3	4	4	2	3	5	3	4	6	. 3	5	6	2	4
above	100	Feet	39	8	24	39	9	24	36	8	22	39	8	23	43	8	25
Hean he	e i ghi	Feet	102	62	82	182	61	82	98	60	79	100	62	31	187	63	85

Y				AN-H	RR	AF	R-Ji	ИU	JU	IL-SI	ΕP	00	T-DI	EC
day	nit	din	day	nit	dkn	day	nit	din	day	nit	d&n	day	กาเ	d&n
		7			8			7			6			9
		5			0	l		5			4			12
l		375	1		377	l		381	İ		372			368
l		19			21	l		19			19			19
13	12	12	11	18	11	12	11	11	15	14	14	13	12	13
	day	day nit	day nit dan 7 5 375	day nit dan day 7 5 375	day nit dan day nit 7 5 375	day nit dan day nit dan 7 8 5 0 375 377	day nit day day nit day	day nit dan day nit dan day nit	day nit dan day nit dan day nit dan 7 8 7 5 6 5 375 381	day nit dan day nit dan day nit dan day 7 8 7 7 5 9 5 375 377 381	day nit dan day nit day nit	day nit dan day nit dan day nit dan day nit dan 7 6 5 6 5 4 375 377 381 372	day nit dan day nit day nit	day nit dan day nit day nit

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

34 55 W (*) INDICATES INSUFFICIENT DATA Specified location: 8 04 S Radiosonde source : 82900 8 04 5

Surface obs source: MS303 5 00 S

34 55 H

Radiosonde station height: 62 Feet

PERCENT OCCURRENCE	: Ur E	инни	LLD.	SUKF	HLE-	10-5	NKHHI	LE KI	אאעא	<u>/£5п</u>	Cun	KHH	<u>. 65:</u>		_
FREQUENCY	ŢŸ	EARL	Υ	J	AK-MI	AR	Ai	PR-JI	UN	J	UL-SI	EP	0	CT-DI	EC
L	day	nit	_d&n	day	nit	d&n	day	nit	dŁn	day	nit	den	day	nit	dŁn
100 MHz	1		0	1	0	1	1	0	0	8	9	Ø	*	*	*
1 GHz	40	9	24	42	9	25	38	8	23	39	9	24	*	*	*
3 GHz	51	16	34	52	15	33	49	15	32	53	_ 19	36	#	*	_ ₹
6 GHz	79	61	70	79	56	67	76	68	68	83	67	75	+	¥	*
19 GHz	93	90	91	92	88	90	93	98	91	93	92	93	*	#	*
20 GHz	96	96	96	96	95	96	96	96	96	96	97	96	+	*	÷

35 00 N

SURFACE BASED DUCT SUMMAPY:

00111 110E DITEL DOCT														
PARAMETER	YEARLY		JF	in-Hf	ìR .	AF	R-Ju	in .	JI	JL-SI	P	01	CT-D!	EC
	day nit o	i&n	day	nit	dan	day	nit	d&n	day	nit	din	day	nıt	d&n
Percent occurrence	3 1	2	-6	0	3	3	0	2	2	- 5	4	0	0	-0
AVG thickness Kft		32			.25			.42			.29			*
AVG trap freq GHz		82			.39	i		.32			1.8	ŀ		*
AVG lyr grd -N/Kft	3	328			537	l		146			302	<u> </u>		*

ELEVATED DUCT SUMMARY:

PARAMETER	Y	ËARL'	7	J	คท-หเ	AR	AI	PR-J	UN	J	JL-SI	EP	O	CT-DI	EC
	day	nit	d&n	day	nıt	d&n	day	nit	dŁn	day	nit	đin	day	nit	dèn
Percent occurrence	14	5	- 9	7	9	4	5	8	3	25	18	22	19	8	18
AVG top ht Kft	l		6.1	l		4.8	l		6.4	ļ		7.4	l		5.6
AVG thickness Kft			.41			.53	. .	_	.29	Í		_37	l		. 45
MYG trap freq GHz			1.2			1.0			1.1			.92			1.9
AVG lyr grd -N/Kft			58	l		52	1		57	ł		58	1		64
AVG lyr base Kft	<u></u>		5.7			4.3	İ		6.2			7.2	l		3.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCC	URRENCE	YE	ARL	8	JI	กห−หเ	1R	RF	P-J(H	J	IL-SE	P	00	T-DE	C
			day	nit	d&n	day	nit	dkn	day	nit	dan	day	nit	dån	day	n <u>it</u>	den
6 10	10	Feet	2	1	2	3	1	2	2	1	1	2	1	2	3	2	2
10 to	28	Feet	2	3	2	2	3	3	2	3	2	1	2	2	1	2	1
20_tc	30	Feet	3	6	4	4	7	6	4	_ 6	5	_2	5	_ 4	_2	4	3
30 to	48	Feet	5	10	7	5	11	8	6	11	9	4	- 9	6	3	- 6	-
48 to	50	Feet	8	19	13	9	21	15	11	19	15	7	17	12	6	18	13
50 to	68	Feet	18	21	16	10	21	16	11	22	16	10	21	15	9	21	15
60 to	79	Feet	10	16	13	18	13	12	9	15	12	10	17	14	10	18	14
78 to	88	Feet	9	10	9	8	7	7	8	9	8	10	12	11	10	11	11
88 to	98	Feet	7	4	6	6	4	5	6	4	5	8	5	7	7	5	6
90 to	100	Feet	5	3	4	4	2	3	5	3	4	6	3	5	6	2	- 4
above	100	Feet	39	8	24	39	9	24	36	8	22	39	8	23	43	8	25
Kean h	e i ah	L Feet	182	62	82	102	61	82	98	68	79	189	62	81	167	63	85

PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit dan	day nit dan	day nit dan	day nit din
% occur ELESE dcts	9	9	8	1	8
% occur 2+ EL dcts	1	3	9	2	9
RVG station N	376	380	382	372	378
AVG station -N/Kft	17	16	18	17	16
RVG sfc wind Kts	13 12 12	11 10 11	12 11 11	15 14 14	13 12 13

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

(*) INDICATES INSUFFICIENT DATA 48 28 W Specified location: 1 22 S Radiosonde source: 82193 1 22 S 48 28 H

Radiosonde station height: 52 Feat 45 68 H Surface obs source: MSS 5 08 N

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY		EARL			N-M			R-J			JL-SI			T-DI	ÉC
										day	nıt	dkn	day	nıt	dån
100 MHz	1	0	1	2	Ø	1	0	0	0	2	8	1	2	0	1
1 GHz	37	7	22	31	5	18	31	6	19	44	8	26	43	8	26
3 GHz	50	14	32	48	15	32	44	13	28	53	_14	_33	54	_ 15	34
6 GHz	88	63	71	82	58	75	78	63	71	78	57	67	82	62	72
10 GHz	94	91	92	94	94	94	94	93	94	91	87	89	95	91	93
20 GHz	97	96	96	97	98	97	97	97	97	95	94	94	97	96	97

SURFACE BASED DUCT	SUMMI	RRY:													
PARAMETER	Y	EARL	7	J	AH-MI	AR .	AF	R-JI	ИL	JI	JL-SI	EP	- 01	CT-DI	EC
	day	nit	d&n	day	nit	dan	day	nít	dkn	day	nit	d&n	day	การ	d&n
Percent occurrence	9	- 0	5	11	- 0	9	· 4	8	2	10	0	5	12	0	6
AVG thickness Kft	1		.34			.27			.28			. 44			.37
AVG trap freq GHz	l		.90			.52			2.0	l		.43	l		.68
RVG lyr grd -N/Kft	1		179	Ì		228			173			120			197

EFEAUTED DOCT SOUDH	` • • •														
PARAMETER	Y	EARL'	Υ	7	AN-M	ir.	Al	アーノリ	<u> </u>	J	JL-SE	P	00	CT-DE	EC
!	day	nit	d&n	day	nıt	dån	day	nit	d&n	day	nıt	dŁn	day	nit	<u>d&n</u>
Percent occurrence	22	3	12	16	0	- 8	8	Ð	4	23	10	17	42	0	21
AVG top ht Kft	İ		8.0			8.6			8.8	l		7.4	ı		7.1
AYG thickness Kft			. 50			.43			.66	L		.50			.41
AVG trap freq GHz			.44			.44			.34			. 55			.45
AVG lyr grd -N/Kft	Ì		59			66	l		57	ì		58	l		56
AVG lyr base Kft			7.6	l		8.3	1		8.3			7.0	J		6.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	occu	RRENCE	YE	RRLY	1	J	AH-HI	AR.	RI	PR-J	UH	3	UL-SI	ΕP	0	CT-DE	EC.
			day	ពាន	dan	day	nit	dan	day	nit	d&n	day	nit	d&n	day	nit	dŁn
0 10	10	Feet	2	1	2	2		2	2	1	1	2	1	2	2	1	2
10 to	20	Fee:	2	3	2	2	1	1	2	2	2	2	5	4	1	3	2
28 to	30	Feet	3	5	4	3	4	3	4	4	_ 4	4	7	6	_ 2	5	4
30 to	40	Feet	5	10	8	5	8	7	6	10	8	6	11	8	5	10	8
40 to	50	Feet	10	19	14	9	17	13	10	20	15	9	19	14	10	20	15
50 to	60	Feet	12	22	17	12	2:	16	12	24	18	11	21	16	11	21	_16
60 to	70	Feet	11	16	14	13	18	16	12	17	14	9	14	12	10	16	13
78 to	80	Feet	16	19	10	12	13	13	11	10	11	7	8	8	9	10	9
88 to	98	Feet	7	5	- 6	19	7	. 8	7	5	6	5	4	4	6	4	5
90 to	100	Feet	5	2	4	7	4	5	5	- 2	4	3	2	3	4	2	3
above	100	Feet	33	7	20	25	5	15	39	6	18	40	8	24	38	8	23
llean he	1 ght	Feet	95	60	78	86	61	73	91	59	75	193	59	81	101	61	81

PARAMETER	YE	ARL	r	J	ลห-หเ	AR :	AF	R-J:	14	JU	JL-SE	P	00	T-DI	EC
	day	nit	dån	day	១១៖	ತ ೬၈	day	nit	d£n	day	nit	d&n	day	nit	dtn
% occur EL&SB dcts			1		_	2			0			1			0
% occur 2+ EL dcts			5	1		3	1		1	l		8	l		8
AVG station N			388	1		387	l		389			387	1		387
AVG station -H/Kft			22	İ		21	1		21			21			24
AVG sfc wind Kts	14	13	13	17	16	16	14	14	14	10	10	10	13	12	13

Specified location: 2 31 S 44 16 W (*) INDICATES INSUFFICIENT DATA Radiosonde source: 82280 2 31 S 44 16 W

45 00 H

Radiosonde station height: 167 Feet Surface obs source: MS5 5 00 N

PEDCENT OCCUPRENCE OF ENHANCED CUREOCE TO CUREOCE BANGRIEGH COM RON

PERCENT (DCCURRENCE	OF_E	NHAN	CED_	<u>surf</u>	ACE-	<u> TO-SI</u>	<u>JRFR(</u>	CE RI	ADAR.	ESH.	<u> </u>	RANI	<u> SES:</u>		
FRE	DUENCY	ŢŸ	ERRL	Ÿ	J	AH-M	AR	A	R-JI)H	J	JL-SI	P	00	CT-DE	EC
L		day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nıt	d&n	day	nit	d&n
100	MHZ	T i	. 0	1	*	*	¥	2	8	1	1	- 0	1	1	- 8	1
1	GHz	48	7	23	*	*	*	35	6	28	43	9	25	41	8	25
3	GHz	51	14	32	*	*	*	48	13	30	52	14	33	52	15	33
6	GHz	86	61	70	T	*	*	80	63	72	78	57	67	81	62	71
] 19	GHz	93	90	92	j ±	¥	*	94	93	94	91	87	89	95	91	93
20	GHz	97	96	96	*	¥	*	97	97	97	95	94	94	97	96	9€

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY	7	J	RN-MA	R	AF	アーブリ	Ж	Jt	JL-SI	EP	01	T-DE	EC
	day nit	dån	day	nit	<u>d&n</u>	day	กเจ	d&n	day	nit	dan	day	nit	dan
Percent occurrence	9 8	5	0	0	0	15	- 0	8	11	6	9	10	. 8	5
AVG thickness Kft		.21	l		*	l		.17			.30	ŀ		. 16
AVG trap freq GHz		1.3	[*	1		1.3	ľ		1.0	ĺ		1.6
AVG lyr grd -N/Kft		181	Ĺ		*			190			142			212

FIEVATED DUCT SUMMARY:

EFEAUTED DOFT SOUGH	· ·														
PARAMETER	Y	ERRL'	Υ	J	<u>คห−ห</u>	RR .	AI	R-J	JN	7	JL-SI	EP	00	CT-DI	EC
l	day	nit	den	day	nit	d&n	day	nit	d&n	day	n1t	dan	day	nit	d&n
Percent occurrence	14	4	- 9	20	9	10	0	0	0	13	14	14	24	6	12
AYG top ht Kft			4.2	1		3.3	1		#			4.3	1		4.8
AVG_thickness Kft	l		.92			1.8			*	L		.33	L		.67
AVG trap freq GHz			.50	1		. 86			*			1.1			.39
AVG lyr grd -N/Kft			63	1		76			*			55	i		57
AVG lur base Kft			3.6			2.3	L		*	L		4.0			4.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OC	CURRENCE	Y	EARLY	r	J	AH-MI	AR.	คเ	R-JI	JN	31	UL-SI	EP	00	T-DE	C
		day	nit	d&n	day	nit	d&n	day	nit	<u>d&n</u>	day	nıt	d&n	day	nıt	d&n
9 to 10	Feet	2	1	2	2	1	2	2	1	1	-2	1	2	2	1	2
10 to 20	Feet	2	3	2	2	1	1	2	2	2	2	5	4	1	3	2
20 to 30	Feet	_ 3	_5	4	_3	_4	3	4	4	_4	4	_ 7	6	2	5	4
30 to 40	Fees	5	10	8	5	8	7	6	10	8	6	11	8	5	10	8
40 to 50	Feet	10	19	14	9	17	13	19	28	15	9	19	14	18	26	15
50 to 60	Feet	12	_22	17	12	21	16	12	24	18	11	21	16	11	21	16
60 to 78	Feet	11	16	14	13	18	16	12	17	14	9	14	12	10	16	13
70 to 80	Feet	10	10	18	12	13	13	11	10	11	7	8	8	9	10	9
56 or 08	Feet	_ 7	5	6	10	7	8	7	5	6	5	4	4	_ 6	4	5
90 to 10	8 Feet	5	2	4	7	4	5	5	2	4	3	2	3	4	2	3
above 18	8 Feet	33	7	20	25	5	15	30	E	18	40	8	24	38	8	23
Hean heigh	ht Feet	95	69	78	86	61	73	91	59	75	103	59	81	101	61	81

GENERAL METEOROLOGY SUMMARY:

C

PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit din	day nit d&n	day nit dan	day nit dan	day nit d&n
% occur EL&SB dcts	0	8	0	1	9
% occur 2+ EL dcts	3	4	9	8	7
AVG station N	385	390	388	383	377
AVG station -N/Kft	19	19	18	21	17
AVG sfc wind Kts	_14 _13 _13	17 16 16	14 14 14	10 10 10	13 12 13

Specified location: 0 54 S 89 37 W (*) INDICATES INSUFFICIENT DATA

Radiosono source: 84008 8 54 S 89 37 H

Radiosonc. 'tation height: 20 Feet Surface on source: MS308 5 00 S 85 00 H

PERCENT	OCCURRENCE	OF E	инайі	CED	SURF	ACE-	TO-51	JRFA	CE RI	ADAP	- ESM	COM	RAN	SES:		
FRE	QUENCY	Y	EARL'	Y	J	M-NA	AR	A	PR-JI	JN	Ji	JL-SE	Ρ	0(CT-DI	EC
		day	nit	d&n	day	nıt	den	day	nıt	d&n	day	nit	d&n	day	nit	d&n
100	MHz	1	9	1	*	*	*	*	*	¥	1	0	1	1	8	9
1	GHz	20	5	12	*	#	*	*	¥	*	19	4	11	21	6	14
3	GHz	23	6	15	*	*	*	*	*	*	21	5	13	25	7	16
6	GHz	39	21	30	*	*	*	*	¥	*	36	20	28	41	22	32
16	GHz	70	61	65	*	*	*	¥	¥	*	68	60	64	72	61	67
20	GHz	85	81	83	¥	*	¥	*	¥	*	85	81	83	85	80	82

SUPFACE BASED DUCT SUMMARY:

PARAMETER	YE	RRLY	7	J	AN-M	18	R	PR-JI	UN	J	JL-SI	P	0	CT-DI	EC
	day	nit	dån	day	nit	d&n	day	nit	d&n	day	nıt	den	day	nit	d&n
Percent occurrence	8	9	4	*	*	*	*	¥	*	5	0	3	11	8	6
AVG thickness Kft	l		. 22	l		*	ŀ		*	ŀ		.34	i i		.10
AVG trap freq GHz			1.3			*	ł		*	l		.23	ı		2.4
AVG lyr grd -N/Kft			316			*			*			482			149

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EAPL'	γ	11	AH-M	AR	Al	R-J	UH	Jŧ	JL-SE	ΕP	00	CT-DI	EC
	day	nit	d&n	day	nit	ರೆ≵≎೧	day	nit	d&n	day	nit	dsn	day	nıt	dan
Percent occurrence	16	8	8	¥	¥	*	*	#	*	11	0	6	29	9	:0
AVG top ht Kft			5.4			*	ŀ		*			4.5	Į.		6.3
AVG thickness Kft			.79			*			*			.66	Ī		. 92
AVG trap freq GHz			.20			*	1		*			.31			.10
AVG lyr grd -N/Kft			67			*	1		*	ĺ		66	[68
AVG lyr base Kft			4.9			*			¥			4.1	_		5.7

EVAPORATION THAT HISTOCRAM IN PERCENT OCCUPRENCE.

PERCENT	000	URRENCE	YE	HRL	r	.1(AN-M	AR	H.	アーブリ	JN .	Jι	JL-SE	P	00	CT-DE	EC
			day	nıt	den	day	n11	din	day	nit	dan	dav	nit	den	day	nit	d&n
8 to	16	Feet	9	10	10	9	12	11	10	9	9	9	9	9	8	10	9
10 to	20	Feet	8	10	9	9	12	10	7	9	8	9	10	9	8	16	9
20 to	30	Feet	13	18	16	11	17	14	111	16	13	18	21	19	14	18	16
30 to	40	Feet	16	20	18	13	16	15	13	18	16	20	22	21	18	22	20
49 to	50	Feet	13	16	15	12	14	13	13	17	15	14	18	16	15	17	16
50 to	68	Feet	9	10	9	_8	9	9	9	11	10	8	9	8	10	11	10
€0 to	70	Feet	4	4	4	4	4	4	5	5	5	5	4	4	4	3	4
70 to	88	Feet	3	2	2	3	2	3	3	3	3	3	2	2	з	1	2
89 10	98	Feet	2	1	1	_ 2	1	2	2	_ 2	2	1	1	1	1	0	1
98 to	100	Feet	1	1	1	2	1	2	2	1	1	1	1	1	1	1	1
above	188	Feet	22	8	15	26	12	19	28	11	19	15	4	10	17	6	12
Mean he	ı gh	t Feet	66	45	56	74	49	62	75	51	63	56	39	47	61	42	51

GENERAL HELEOMOCOGI	70111111111111111111111111111111111111				
PARAMETER	YEARLY	JAN-HAR	APR-JUH	JUL-SEP	OCT-DEC
	day nit dan	day nit dên	day nit dan	day nit den	day nit din
% occur EL&SB dcts	1	8	9	8	2
% occur 2+ EL dcts	9	8	8	0	9
AVG station N	358	*	*	359	35?
AVG station -N/Kft	15	*	*	14	15
AVG sfc wind Kts	9.2 10 9.4	7.3 7.5 7.4	9.4 10 9.5	10 11 11	10 10 10

Specified location: 5 00 S 95 00 W (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 84008 0 54 \$ 89 37 W

Radiosonde station height: 20 Feet Surface obs source: MS309 5 00 S 95 00 H

PERCENT OCCUPRENCE OF ENHANCED SUPERICE-IN-SUPERICE RADAP/FSM/COM PANGES:

CACEIII (Je cornence	Or L	461611144	<u></u>	30r I	n. L	10-51	301 III	, L	II DITTO	C 311.	C 0 . ,	KINK	,,,,,		
FRE	DUENCY	Ţ	EAR!	ν	Ji	AN-MI	RR	A	PR-JI	UN	Ji	JL-SI	P	0	C7-DI	EC
		day	nit	dan	day	nit	d£n	day	nit	d£n	day	nit	din	day	nit	_d&n
100	HHiz	1	0	1	*	*	+	*	*	*	1	8	1	1	8	0
1	GHZ	29	7	18	*	*	#	*	*	¥	27	6	16	30	9	28
3	GHz	37	11	24	*	*	*	. * .	*	*	36	9	23	37	12	24
6	GHz	59	37	48		*	*	+	*	*	69	38	49	56	35	46
10	GHz	82	74	78	i *	*	¥	*	+	#	83	73	78	81	75	78
28	GHz	98	89	89	ı .	¥	4	*	÷	*	91	88	89	89	98	56

SUPERCE RASED DUCT SUMMARY:

PARAMETER	YI	ARL'	Ÿ	J	AH-M	AR	a:	R-J	ИN	JI	JiL-SI	EP	O	CT-DI	EC
	day	nit	dan	day	nit	d&n	day	nit	d&n	day	nit	_d&n	day	nit	d&n
Percent occurrence	8	0	4	*	*	*	+	Ŧ	#	5	8	3	11	. 0	6
AVG thickness Kft	1		.22	l		*	•		*			. 34	ì		.18
AVG trap freq GHz	l		1.3	Į		*	l		*	l		.23			2.4
AVG lyr grd -N/Kft	l	_	316	l			i		*			482	L		149

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	3	AN-M	BR	AI	アーブ		J:	JL-SE	٩	ŏ	T-DI	EC
	day	nit	d&n	day	nit	d&n	day	nit	din	day	nit	dŧn	day	nit	d&n
Percent occurrence	16	9	- 8	*	*	*	*	*	*	11	9	6	28	8	10
AVG top ht Kft			5.4			*	l		+	1		4.5	i		6.3
AVG thickness Kft			.79			*			#		_	.66	L		.92
AVG trap freq GHz			.28			+	T		#			.31			.10
AVG lyr grd ~H/Kft			67	ľ		*	1		*	•		66			68
AVG lyr base Yft			4.9			*	l		*	ļ		4.1	ĺ		5.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCUR	RENCE	YE	ARLY		Ji	AN-MA	ìR	Al	R-JI	JH	J	UL-SI	ΕP	01	CT-DI	EC
	d	lay	nit	dln	day	nıt	dŧn	day	nit	d&n	day	nit	dan	day	nit	d&n
0 to 10 F	eet	5	5	5	5	5	5	5	5	5	5	6	5	5	5	5
10 to 20 F	eet	5	7	6	6	9	8	4	6	5	5	7	6	7	?	7
20 to 30 F	e € 1	8	13	11	11	14	12	4	11	_7	8	14	11	9	14	12
30 to 40 F	eet	11	17	14	12	16	14	6	13	10	12	18	15	13	20	16
48 to 58 F	eet	11	18	14	11	17	14	8	16	12	13	19	15	12	21	16
50 to 60 F	get	10	14	12	10	13	12	9	14	12	_10	14	12	11	13	12
60 to 70 F	eet	7	9	8	6	8	7	8	11	10	8	9	9	7	7	7
70 to 8∂ F	eet	6	5	5	5	4	4	8	7	7	6	6	6	4	4	4
88 to 90 F	eet	5	2	4	_3	2	2	_ 6	4	5	6	_2	4	3	2	2
90 to 198 F	eet	3	1	2	2	1	2	1	2	3	4	1	- 2	2	1	2
above 100 F	eet	29	9	19	29	10	28	37	12	25	24	6	15	27	9	18
Hean height	Feet	84	53	68	83	53_	- 68	96	68	78	-76	48	62	89	51	66

GENERAL HETEUROLOGI	SUMME I .				
PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit dan	day nit dan	day nit dan	day nit d&n
% occur EL&SB dcts	1	8	0	8	2
i% occur 2+ EL dcts	0	9	8	6	8
RVG station N	358	*	*	359	357
RVG station -N/Kft	15	+	*	14	15
AVG sfc unit Kts	11 10 11	9.3 8.9 9.1	12 11 11	13 12 12	10 10 10

Specified location: 9 49 S 139 01 W (*) INDICATES INSUFFICIENT DATA

i. Eg

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Radiosonde source: 91925 9 49 S 139 01 H

Radiosonde station height: 167 Feet Surface obs source: MS14 5 00 N 135 00 W

DEPOSIT OCCUPATION OF EMPONES OF CHARGOS TO CHARGOS BORD FEW COM DAMES

PERCENT (OCCORRENCE	OF FI	инни	FD :	SURFI	41 E -	10-51	<u>UKFHI</u>	,E K	HUHP	'ESH	<u>/ L UN</u>	KHR	<u> </u>		
FREC	DUENCY	78	EARL'	4	J	AN-MA	R .	AF	アネーゴリ	JH	J	UL-S	EP "	0	CT-DI	EC
		day	ntt	d&n	day	nit	d&n	day	nit	din	day	nıt	dŧn	day	nit	dŁn
100	HHz	2	0	1	2	0	1	2	0	1	2	9	1	2	0	1
1	GHz	35	5	20	31	5	18	33	3	18	42	8	25	34	4	19
3	GHZ	46	9	27	42	9	_ 25	42	_ 7	_25	53	13	33	46	8	27
6	GHz	75	52	63	74	53	64	71	46	59	78	58	68	76	49	62
10	GHz	91	- 88	89	91	87	89	89	85	87	92	91	92	92	88	98
20	GHz	96	95	96	96	95	96	95	94	94	96	96	96	97	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	ARL	Y	31	AN-M	AR	AI	₹-JI	ИU	JI	JL-S	EP	01	CT-Di	EC
	day	nst	d&n	day	nit	den	day	nit	d&n	day	nit	din	day	nit	CEn
Percent occurrence	16	0	8	18	0	9	16	9	8	17	8	9	13	0	7
AVG thickness Kft			.17	1		.13	1		. 14	ŀ		.22	İ		.20
AVG trap freq GHz			1.5			1.9	l		1.5	1		1.3	•		1.1
AVG lyr grd -N/Kft			120			109			114	<u> </u>		137	<u> </u>		122

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	J	AH-H	RR	AI	PR-JI	NH _	J	JL-SĨ	EP	00	CT-DE	C
-	day	nit	d&n	day	nit	dan	day	nit	dŁn	day	nit	d&n	day	nıt	d&n
Percent occurrence	29	9	14	22	0	11	26	6	13	43	8	22	23	0	12
AVG top ht Kft	İ		7.2	1		7.8	1		6.7			7.1	l		7.8
AVG thickness Kft	l		. <u>4</u> 5	<u> </u>		. 43			.50		_	. 47			.40
BVG trap freq GHz			.45	1		.56			-29			.34			.62
AVG lyr grd -N/Kft	l		58			57	i		58	i		59	l		57
AVG lyr base Kft	Ī		6.8	L		6.7			6.3			6.8	į .	_	7.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCL	JRRENCE	YI	RRL	7	J	AN-M	R	ЯF	R-JI	JN	JI	UL-SI	EΡ	00	T-DI	EC
			day	nıt	dŧn	day	nit	dan	day	nit	d&n	day	nit	d&n	day	nit	din
9 10	10	Feet	3	1	2	3	i	2	3	2	2	3	ī	2	3	1	2
10 to	26	Feet	2	3	3	2	3	3	3	5	4	2	3	2	1	3	2
20 10	30	Feet	6	7	7	6	8		7	. 8	7	5	5	. 5	_ 6	- 8	. 7
38 to	40	Feet	8	15	12	7	16	11	9	16	13	7	14	11	8	16	12
40 10	58	Feet	11	21	16	13	18	16	11	24	17	9	19	14	10	22	16
50 to	60	Feet	12	22	17	_15	24	19	13	_ 22	_17	10	21	_16	12	21	16
60 to	70	Feet	11	13	12	12	14	13	11	16	11	10	15	12	10	13	11
70 50	88	Feet	9	7	8	9	7	8	8	6	7	8 (9	8	10	8	9
_ 98 + 0	98	Feet	6	3	5	_ 6	3	4	5	3	- 4	7	4	5	7	2	5
90 to	168	Feet	3	1	2	4	1	2	2	1	2	1	<u>ī</u>		4	1	- 2
above	100	Feet	30	5	18	26	5	15	28	3	16	37	8	22	30	4	17
Hean he	e gh	Feet	89	55	72	82	55	68	97	53	69	98	68	79	89	54	71

PARAMETER	YE	ARL	ľ	Ji	AN-M	AR	AF	R-JI	JN	JL	JL-SE	EP .	96	CT-DE	EC
	day	กาt	dŁn	day	nit	den	day	nit	d&n	day	nit	d&n	day	nit	dan
% occur EL&SB dcts			3			3			4			4			3
% occur 2+ EL dcts			3	ĺ		2	l		2			4	!		3
AVG station N			378	l		374			373			369	i		365
AVG station -N/Kft			17	l		18			17			17			17
AVG sfc wind Kis	14	13	13	_15	15	15	13	12	13	13	12	12	13	13	13

Specified location: 2 46 S 171 43 W (*) INDICATES INSUFFICIENT DATA Radiosonde source: 91700 2 46 S 171 43 W

Radiosonde station height: 10 Feet

Surface obs source: MS317 5 00 S 175 00 W

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR 'ESM'COM RANGES:

Chociii Oocol Pelioc	<u> </u>										2011		360.		
FREQUENCY	T Y	EARL	Υ	J	AH-HI	R	RI	PR-JI	JH	JI	JL-SE	EP	0:	CT-DE	EC
	(day	nit	dan	day	nit	d£n	day	nit	din	day	nit	din	day	nit	d&n
100 MHz	12	1	7	14	5	9	13	9	6	12	Ð	6	10	8	5
1 GHz	65	16	41	68	29	49	63	ខ	36	6?	17	42	69	11	36
3 GHz	78	25	_52	81	40	68	77	15	46	81	25	53	74	20	47
6 GHz	91	63	77	93	72	82	90	54	72	93	65	79	89	62	76
18 GHz	97	87	92	98	91	95	97	84	98	98	88	93	96	87	91
28 GHz	99	95	97	99	96	97	98	94	96	99	95	97	98	95	97

SURFACE RASED DUCT SUMMARY:

JOST HEE BHISED DOCK S	· · · · · · · · · · · · · · · · · · ·													
PARAMETER	YEARL	-	31	HR-MF	R.	Ñ1	PR-J	SN	31	UL-SI	P	01	CT-DI	EC
	day nit	d&n	day	nit	dan	day	nit	dŁn	day	nit	dan	day	nit	<u>d&n</u>
Percent occurrence	73 7	48	79	27	53	73	<u> </u>	37	75	8	38	66	8	33
RVG thickness Kft		.26	1		.24	(.26			.28	[. 25
AVG trap freq GHz		.57			.51	1		.51	1		.56	l		.69
RVG lyr grd -N/Kft	İ	97	Ĺ		106	l		96	Ĺ	_	92			93

ELEVATED DUCT SUMMARY:

PARAMETER	Ϋ́I	ERRL'	ř	J	คห-หเ	RR	Ā	PR-J	UH.	31	JL-SI	EP	0	CT-D	EC
	day	nit	din	day	nit	dûn	dav	nit	din	day	nit	dan	day	nit	dån
Percent occurrence	23	- 0	11	17	0	9	17	8	9	38	0	15	26	9	13
AVG top ht Kft			5.2	ĺ		5.1	l		5.1	1		5.5	i		5.8
AVG thickness Kft			,42	[.41			.36	<u> </u>		.42			.47
AVG trap freq GHz			.59			.78			.64	i		.42			.53
AVG lyr grd -N/Kft			57	1		58	ļ		55	1		57	1		68
AVG lyr base Kft			4.9	L		4.8	l	_	4.8	Ĺ	_	5.2	f		4.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

FAHLOKHI	TON .	DOC 1 HIS	<u> </u>	(НЛ :	LN PI	<u> </u>	M 1 UI	<u>LUKI</u>	<u> </u>	<u> </u>							
PERCENT	OCC	URRENCE	Y	EARL	′	J	RH-M	R	RI	PR-31	UN	JI	JL-SE	P	00	T-DE	C
l			day	nit	din	day	nit	<u>dŁn</u>	day	nit	d&n	day	nit	din	day	nit	din
8 to	10	Feet	3	2	- 2	3	2	2	2	1	2	2	2		3	1	- 2
10 to	20	Feet	3	4	3	3	4	3	4	5	4	2	3	3	2	4	3
20 to	38	Feet	_ 5	8	6	4	6	5	6	19	_ 8	4	. 7	5	5	_8	7
30 10	40	Feet	7	10	8	7	9	8	8	12	18	6	9	7	7	11	9
48 to	50	Feet	10	15	13	11	17	14	13	17	15	8	14	11	9	14	11
50 to	60	Feet	12	18	15	13	17	15	12	13	_ 15	10	18	14	11	18	15
60 to	78	Feet	9	13	11	9	13	11	9	13	11	9	12	11	8	13	11
70 10	39	Feet	8	19	9	8	10	9	7	8	8	18	10	10	8	11	18
88 to	90	Feet	6	5	6	6	6	6	6	5	5	7	5	6	6	6	6
90 to	103	Feet	4	3	3	3	3	3	4	- 2	3 [·]	5	3	4	5	3	4
above	100	Feet	24	12	23	34	13	24	39	8	19	38	17	28	35	11	23
<u> Mean h</u>	e i gh	t Feet	94	_ 66	89	94	68	91	88	60	74	99	72	86	95	64	79

PARAMETER	YEARLY	JAH-HAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit dan	day nit dan	day nit dan	day nit dan
% occur ELESE dets	14	11	13	17	15
% occur 2+ EL dcts	2	1	1	3	2
AVG station N	373	374	376	375	368
AVG station -N/Kft	23	24	23	24	23
RYG sfc wind Kts	10 9.0 9.4	11 10 16	8.5 8.3 8.4	16 9.4 10	19 8,8 9.2

Radiosonde source : 91643

3 Feet Radiosonde station height:

5 00 S 175 80 H Surface obs source: MS317

-	FACEUL :	RECOMPENCE	UF E	инни	ren :	SURFI	HLE-	10-5	UKFHI	LERI	TURP	ESU	<u> ~ C UN</u>	Knn	<u> </u>		
Γ	FRE	RUENCY	Ϋ́	EARL	Y	J	RN-M	AR	RI	PR-JI	JN	J	UL-SI	EP	0	CT-DI	EC
L			day	nit	d&n	day	nit	dtn	day	nit	d&n	Cay	nit	dan	day	nit	d&n
Г	100	HHz	4	6	2	4	8	2	3	8	1	4	8	2	3	0	2
-	1	GHz	43	12	28	44	13	29	38	8	23	49	17	33	43	11	27
1	3	GHz	55	28	38	55	22	38	49	15	32	61	25	43	55	20	38
Г	6	GHz	79	61	78	79	62	71	73	54	64	84	65	75	79	52	71
	10	GHz	92	87	98	93	88	91	91	84	87	94	88	91	92	87	89
L	28	GHz	96	94	95	96	95	95	96	94	95	97	95	96	96	95	95

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(*) INDICATES INSUFFICIENT DATA

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	ERRL'	γ	Ji	คพ-พ	ar .	Ai	R-J	H	Jt	JL-SE	P	00	CT-DI	EC
	day	nit	d&n	day	nit	dtn	day	nit	dŁn	day	nit	dŁn	day	nis	<u>d&n</u>
Percent occurrence	25	- 8	13	26	9	13	21	0	11	28	Э	14	26	- 6	13
AVG thickness Kft			.38			.37			.36			.41	ļ .		.37
AVG trap freq GHz	İ		.81	ŀ		.69			.82			. 59	l		1.1
AVG lyn grd -N/kft			92	i .		95			97		_	78			99

PARAMETER		ARL	Y	J	AK-M	iR	Al	R-JI	JN	J	JL-SI	EP	Ŏ	CT-DI	EC
	day	nit	dan	day	nit	dan	day	nit	dŁn	day	nit	d&n	day	nit	dŁn
Percent occurrence	15	0	7	11	9	6	11	0	6	19	8	18	18	8	9
RYG top ht Kft	1		5.5	İ		6.5	1		4.1			6.5	i		4.7
Aug thickness Kft		_	.36			.25	İ		.37			.44			.40
AVG trap freq GHz	i —		1.2			2.3			1.0			.86,			.80
RYG lyr grd -N/Kft	l		57	1		68	l		51	l		57	l		54
AVG lyr base Kft			5.2	l		6.3	L		3.8	l		5.2	i		4.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCURRENCE	Y	ARL	r	J	AN-H	AR T	AI	-R-J	N	7	JL-SE	F	00	T-DE	C
		day	nit	dan	yet	nit	den	day	nit	d&n	day	nıt	d&n	day	nit	dan
8 10	10 Feet	3	2	2	3	2	2	2	1	2	2	2	2	3	1	2
18 to	20 Feet	3	-4	3	3	4	3	4	5	4	2	3	3	2	4	3
20 10	30 Feet	5	ક	6	4	6	- 5	6	10	8	4	7	5	5	8	_ 7_
30 10	48 Feet	7	10	8	7	9	8	8	12	10	6	9	7	7	11	9
40 to	50 Feet	18	15	13	11	17	14	13	17	15	8	14	11	9	14	11
50 10	60 Feet	12	18	_15	13	17	15	12	18	:5	10	18	14	11	18	15
60 to	78 Feet	9	13	11	9	13	11	9	13	11	9	12	11	8	13	11
70 10	80 Feet	8	19	9	8	10	9	7	8	8	10	10	10	j 8	11	16
80 to	90 Feet	6	5	. 6	6	€	6	6	5	_5	7	5	- 6	6	_6_	6_]
90 10	100 Feet	4	3	3	3		3	4	2	3	5	3	4	5	3	4
above	100 Feet	34	12	23	34	13	24	30	8	19	38	17	28	35	11	23
Nean he	ght Feet	94	66	88	94	68	81	88	58	74	99	72	86	95	64	79

PARAMETER	YEARLY	JAN-HAR	APR-JUH	JUL-SEP	OCT-DEC
	day nit dan	day nit dan	day nit dan	day nit dan	day nit dan
% occur EL&SB dcts	2	2	1	4	2
% occur 2+ EL dcts	1	9	1	2	1
AVG station N	386	386	388	387	384
AVG station -N/kft	21	21] 21	21	21
AVG sfc wind Kis	10 9.0 9.4	11 10 10	8.5 8.3 8.4	10 9.4 10	10 8.8 9.2

Specified location: 9 25 S 159 58 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 91517 9 25 S 159 58 E

Radiosonde station height: 184 Feet

Surface obs source: MS320 5 00 S 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	7.1	ARL.	Y	Ji	RN-M	R R	AI	PR-JU	אנ	JU	JL-SI	EP	ō	CT-DI	EC
	day	nit	dŁn	day	nit	<u>d£n</u>	day	nit	d&n	day	ni t	din	day	nit	dan
180 MHz	4	8	2	3	- 9	2	4	. 6	2	3	0	2	5	0	3
1 GHz	50	8	29	48	10	29	49	7	28	46	8	27	55	8	32
3 GHz	_59	13	36	58	14	36	58	11	34	57	14	35	64	13	39
6 GHz	82	51	66	80	49	65	80	48	64	82	57	69	34	56	67
10 GHz	94	82	88	94	88	87	93	81	87	94	87	91	95	81	88
28 GHz	97	92	95	97	98	94	97	92	94	97	94	96	98	91	95

SUPPOSE BASED BUST SUMMARY.

SUKFACE BASED DUCT	วบุกก	nr i .								-					
PARAMETER	Ý	EARL'	Y	J	AH-H	AR	RI	R-J	UN	31	UL-SI	ΕP	0	CT-DE	EC
	day	nit	d&n	day	nit	d£n	day	nit	d&n	day	nit	din	day	nit	dŁn
Percent occurrence	31	0	16	24	8	12	33	0	17	26	e	13	41	8	21
AVG thickness Kft	•		. 18	i .		. 19	l		. 22	i		.16	i		.17
AVG trap freq GHz	l		1.0	1		. 92	i		.93	l		1.1	l		1.0
AVG 1ur and -N/Kft	ı		124)		116	ļ		136	l		120	!		124

ELEVATED BUCT SUMMARY:

PARANETER	Y	EARL	Y	J	RN-M	RR	AI	2R-JI	UH	JI	JL-SI	P	Ö	ת-דכ	EC
	day	<u>ni</u> t	d&n	day	nit	d&n	day	nit	d&n	day	nit	dån	day	nit	d&n
Percent occurrence	9	0	- 5	7	0	4	12	8	6	9	- 0	5	8	0	4
AVG top ht Kft			7.2	}		6.6	J		6.6	l		7.8	1		7.7
AVG thickness Kft	l		.38		_	.58	ļ	_	.32	ļ		.30		_	.30
AVG trap freq GHz			.66			.44			.67			.79			.75
AVG lyr grd -N/Kft	ļ .		63	1		72	į .		€1	l		62	l		56
AVG lyr base Kft	ĺ		6.9	1		6.3	L		6.3			7.6	l		7.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCURRENCE	Y	ARLY	′	J	BH-K	AR	AF	R-JI	אט	31	UL-SI	P	01	CT-DE	EC
		day	nit	din	day	nit	dkn	day	nit	din	day	nit	d£n	day	nit	dan
0 to	10 Feet	2	1	<u> </u>	2	2	2	1	2	1	2	1	1	2	1	1
10 to	28 Feet] 2	€	4	2	8	5	2	6	4	1	4	3	2	7	4
20 to	38 Feet	5	10	7	5	19	7	5	11	8	4	7	_ 5	5	11	8_
38 to	40 Feet	6	13	10	7	14	10	7	13	10	5	13	9	7	13	10
40 20	50 Feet	10	18	14	19	17	13	11	19	15	10	17	13	9	18	13
50 to	60 Feet	11	20	16	12	19	15	12	19	16	11	21	16	11	19	15
60 10	78 Feet	10	13	11	9	11	10	10	13	11	12	15	13	10	12	11
78 to	80 Feet	j 6	6	6	6	6	6	6	6	6	8	8	8	6	6	6
_80 to	98 Feet	5	3	4	5	3	. 4	4	3	3	_6	4	5	4	_ 3	3_
99 to	188 Feet	3	1	2	3	1	2	3	1	2	3	2	2	2	2	2
a bov€	100 Feet	40	8	24	41	18	26	38	7	22	38	8	23	43	8	26
Hean he	ight Feet	184	58	81	186	58	82	101	56	78	101	68	81	118	57	83

PARAMETER	YERRLY	JAK-HAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit din	day nit dan	day nit oan	day nit dan
% occur EL&SB dcts	3	3	3	2	2
% occur 2+ EL dcts	1	0	1	1	2
RVG station N	368	369	369	364	369
RVG station -N/Kft	18	18	18	17	18
AVG sfc uind Kts	9.3 8,5 8.9	8.8 7.7 8.2	9.0 8.7 8.8	11 10 11	8.2 7.4 7.8

(+) INDICATES INSUFFICIENT DATA 5 00 S 155 88 E

Specified location: 9 25 S 159 58 E Radiosonde source : 91517

Radiosonde station height: 184 Feet

Surface obs source: MS320 5 08 S 155 00 E

FREQUENCY	Y	ERRL'	Υ	J	<u>an-m</u>	R S	- AI	P-J(JN	JI	ルーち	EP	0	CT-D!	EC
	day	nit	d&n	day	nit	d&n	day	nit	din	day	nit	d&n	day	nit	dtn
100 MHz	4	Θ	2	3	ē	2	4	9	2	3	0	2	5	0	3
1 GHz	58	8	29	48	10	29	49	7	28	46	8	27	55	8	32
3 GHz	59	13	36	53	14	36	58	11	34	57	14	35	64	13	39
6 GHz	82	51	66	88	49	65	88	48	64	82	57	69	84	58	67
18 GHz	94	82	88	94	88	87	93	81	87	94	87	91	95	81	88
28 GHz	97	92	95	97	98	94	97	92	94	97	94	96	98	91	95

CUPEACE DACED DUCT CHMMADY.

FARAMETER	71	EARL'	Y	J	RN-MI	AR	AF	R-J	JH	JI	UL-SI	EP	0	CT-DI	EC
	day	nıt	dtn	day	nit	d&n	day	nit	dŁn	day	nit	d&n	day	nit	<u> ժ&ո</u>
Percent occurrence	31	0	16	24	- 0	12	33	8	17	26	9	13	4:	8	21
AVG thickness Kft			. 18	1		.19	1		.22	1		.16	i		.17
AVG trap freq GHz	ļ		1.0	i		.92	•		.93	1		1.1			1.0
AVG lyr and -N/Kft	1		124	l		116	i		136	l		120	_		124

ELEVATED DUCT CHMMADY.

PARAMETER	Y	EARL	Y	<u></u>	H-NA	AR.	RI	R-JI	ŲH .	Jl	JL-SI	EP	00	CT-BI	EC
	day	nit	d&n	day	nit	dkn	day	nit	d&n	day	nit	d&n	day	nit	dkn
Percent occurrence	9	9	5	7	- 8	4	12	8	6	9	0	5	8	- 0	4
AYG top ht Kft			7.2	1		6.6			6.6	1		7.8	ļ		7.7
AVG thickness Kft			.38	i		.58			.32	l		.30		_	.30
AVG trap freq GHz			.66			.44			.67			.79			.75
AVG lyr grd -N/Kft			63			72	l		61			62	•		56
AVG lyr base Kft	ı		6.9	l		6.3	l		6.3	l		7.6	l		7.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCI	JRRENCE	Y	ERRL	Y	J	AN-H	AR	AI	PR-JU	JN	31	JL-SI	P	0	CT-DE	EC
			day	Git	dŁn	day	nit	din	day	nit	d&n	day	nit	d&n	day	nit	dån
Ø to	10	Feet	2	1	1	2	2	2	1	2	1	2	1	1	2	1	1
18 to	20	Feet	2	6	4	2	8	5	2	6	4	1	4	3	2	7	4
20 to	36	Feet	_ 5	_10	7	5	19	. 7	5	11	8	4	7	5	5	11	8
38 to	40	Feet	6	13	10	7	14	10	7	13	10	5	13	9	7	13	10
40 to	50	Feet	10	18	14	16	17	13	11	19	15	10	17	:3	, 9	18	13
50 10	60	Feet	11	28	16	12	19	15	12	19	16	11	21	16	11	19	15
60 to	70	Feet	10	13	11	9	11	10	18	13	11	12	15	13	10	12	11
70 to	86	Feet	6	6	6	6	6	6	6	6	6	8	8	8	€	6	6
88_to	90	Feet	_ 5	_ 3	4	5	3	4	4	3	3	6	4	5	4	3	3
9Ø to	100	Feet	3	1	2	3	1	2	3	1	2	3	2	2	2	2	2
above	100	Feet	48	8	24	41	10	26	38	7	22	38	8	23	43	8	26
Hean he	2 gh	Feet	104	58	81	106	58	82	191	56	78	101	60	81	1 <u>1e</u>	57	83

PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit dan	day nit dan	day nit dan	day nit dan
% occur EL&SB dcts	3	3	3	2	2
% occur 2+ EL dcts	1	9	1	1	2
AVG station H	368	369	369	364	369
RVG station -H/Kft	18	18	18	17	18
AVG SEC wind Kis	9.3 8.5 8.9	8.8 7.7 8.2	9.8 8.7 8.8	11 18 11	8.2 7.4 7.8

Specified location: 6 43 S 147 00 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 94027 6 43 S 147 80 E

Radiosonde station height: 26 Feet

Surface obs source: MS321 5 88 S 145 88 E

PERCENT ACCURRENCE AE ENWANCEN SURFACE-TA-SURFACE DANAR/ESW/CAM DANGES

PERCENT OCCURRENCE	UP E	NUUN	CER :	SUPF	<u> </u>	10-2	UKFR	LE X	HUNK	"E3N	<u>/ EUN</u>	KRN	163:		
FREQUENCY	Y	EARL'	Υ	J	คพ-หเ	AR .	R	PR-J	JH	J	UL-S	EP	Ō	CT-DE	EC
L	day	nit	d&n	day	nit	din	day	nit	d&n	day	nit	din	day	nit	d&n
100 MHz	2	0		3	0	1	1	- 6	1	1	0	- 0	_3	9	1
1 GHz	37	12	24	39	11	25	32	14	23	39	11	25	38	12	25
3 GHz	46	18	_32	49	15	32	42	19	38	47	_20	33	47	17	32
6 GHz	73	51	62	77	52	65	69	45	57	74	55	65	73	54	63
10 GHz	91	81	86	93	84	89	88	76	82	92	84	98	90	89	85
28 GHz	96	93	94	97	94	96	95	90	92	96	94	95	96	93	94

SUPFACE BASED DUCT SUMMARY.

SURFACE BUSED DOC!	SURRE	nr :													
PARAHETER	YI	EARL'	Y	JI	AN-M	AR	AI	PR-JI	אנ	31	UL-SI	EP	O	CT-DI	ĒÇ
L	day	nit	d&n	day	nit	dŧn	day	nit	d£n	day	nit	din	day	nit	d&n
Percent occurrence	14	0	7	20	0	10	9	9	5	8	9	4	18	- 6	9
AVG thickness Kft	i		.34	l		. 25	i		.29	ļ		.33	i i		.48
AVG trap freq GHz	i		.88	ĺ		1.0	1		.75	ĺ		1.6			.76
AVG lyr grd -H/Kft	<u>. </u>		113	i		91			127			139			97

ELEVATED DUCT SUMMARY:

PARAMETER		EARL	<u> </u>	11	ii-n	AR	- AI	R-J	:N	.71	JL-SI	FP	01	CT-DI	÷C
T Intiling TEX			-										-		dŁn
Percent occurrence	5	0	3	6	0	3	3	8	2	4	0	2	7	0	4
AVG top ht Kft	,		7.7	}		7.0			4.2	i		6.7	ļ		13
AVG thickness Kft	L _		.36	i		.38	L		.37			.44			.27
AVG trap freq GHz			1.2			.88			2.4			1.2			.56
AVG lyr grd -N/Kft	ļ		€4	}		58	•		58	1		66	1		73
AVG lyr base Kft			7.5	<u> </u>		6.8	L		3.9	i		6.4	<u> </u>		13

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCURRENCE	Y	ERRL'	7]	RN-M	aR	AI	PR-JI	UH	J	UL-SI	EP.	01	CT-DI	C
		day	กาเ	d&n	day	nit	din	Jay	nit	din	day	nit	din	day	nit	dtn
0 to	10 Feet	1	1	1	1	8	1	5	2	5	1	1	1	2	2	2
18 to	28 Feet	[3	6	4	3	6	4	3	9	6	3	4	3	3	5	4
28 to	30 Feet	6	11	9	_ 5	18	8	8	14	11	4	_9	7	7	12	10
30 to	48 Feet	8	12	10	6	11	9	8	15	11	8	14	11	8	10	9
49 to	SO Feet	12	17	15	13	21	17	13	16	14	11	15	13	11	17	14
50 to	60 Feet	12	16	14	12	17	15	11	16	13	12	17	14	13	15	14
60 to	70 Feet	12	12	12	13	15	14	11	7	9	11	12	12	11	13	12
78 to	80 Feet	7	6	6	8	5	6	?	4	5	6	7	6	6	8	7
80 to	90 Feet	5	4	4	4	2	_ 3	5	3	4	5	_5	5	[_5	4	5
98 to	100 Feet	3	- 2	3	3	2	3	3	1	2	3	4	4	2	1	2
zbove	100 Feet	32	12	22	33	11	22	29	14	21	36	11	23	31	12	21
_ Hean he	ight Feet	92	62	77	95	61	_78	88	60	74	96	64	89	91	63	77

PORAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit din	day nit dan	day nit dan	day nit dan
% occur EL&SB dcts	1	1	9	0	1
% occur 2+ EL dcts	1	8	8	1	2
AVG station N	368	368	368	367	370
AVG station -H/Kft	17	17	17	17	17
AVG sfc wind Kts	8.9 8.2 8.6	9.1 8.0 8.6	8.5 7.4 7.9	18 18 19	8.0 7.8 7.9

5 88 S

Specified location:

(#) INDICATES INSUFFICIENT DATA

Radiosonde source : 94120 12 25 S 130 52 E Radiosonde station height: 95 Feet Surface obs source: MS322 5 00 S 135 00 E

6E£	PCENT (DCCUPPENCE	OF E	инани	CED :	SURF	ACE-	10-SI	URFA(E R	ADHR!	ESM.	/CDM	KHN	LES:		
Г	FRE	DUENCY	Y	EARL	Ϋ	J	AH-M	AR	RI	R-Ji	JH .	7	JL-SI	P	01	CT-DI	EC
i			day	nıt	dŁn	day	กระ	d&n	day	nit	dŁn	day	nit	dŧn	day	១វេ	d&n
	160	HHZ	2	0	1	1	8	1	3	0	1	2	. 0	1	2	9	1
	1	GHz	45	13	29	38	11	24	47	15	31	47	13	36	49	15	32
	3	GHZ	55	22	39	49	21	35	58	24	41	58	22	40	56	20	_38
	6	GHz	81	63	72	77	66	71	83	- 66	75	85	63	74	80	55	67
	10	GHz	94	87	98	92	88	98	95	92	94	95	87	91	92	81	86
i_	20	GHz	98	95	96	97	96	97	99	96	97	98	96	97	97	91	94

135 00 E

SUPFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL	Y	J1	AH-HI	RR	AF	R-J	JN	JI	JL-SI	P	Ö	T-DI	EC
l i	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d£n	day	nit	dŁn
Percent occurrence	14	0	7	12	0	6	17	9	9	14	- 6	7	13	9	7
AYG thickness Kft			.28	1		.17			.31			.43	ı		.23
AVG trap freq GHz			.83	i		1.3			.59			.52			.88
AVG lyr grd -H/Kft			115	<u> </u>		115			107			133			107

PARAMETER	Y!	EARL'	Y	J	AN-M	AR .	AF	R-J	HU	JI	UL-SI	EP	C	CT-DI	EC
_	day	nit	dån	day	nit	d&n	day	nit	d&n	day	nit	đần	day	nit	dan
Percent occurrence	21	0	11	9	0	5	38	- 0	15	23	0	12	23	8	12
AVG top ht Kft			6.6			7.2	l		6.4			5.5	1		5.1
AVG thickness Kft	١.		.40	l		.34	l		. 37			.35	L		.56
RVG trap freq GHz			.66			1.2			.50			.65			.34
AVG lyr grd -N/Kft	l		60			65	ł		58			59	1		57
AVG lyr base Kft			5.7	l		6.9	1		6.1	Į.		5.2	l		4.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT	OCCL	IRRENCE	YE	ARL	,	J	คพ-พย	AR .	A F	R-JI	JH	31	JL-SI	EP	01	CT-DI	EC
			day	nit	din	day	กาเ	d&n	day	nıt	din	day	nit	dtn	day	nit	dŁn
8 to	18	Feet	1	1	1	8	1	1	0	8	0	1	8	i	1	1	1
18 to	20	Feet	2	5	3	3	4	3	2	3	2	1	4	3	2	7	5
28 to	30	Feet _	5	_ 8	6	6	8	7	_4_	4	4	3	9_	6	6	18	9
30 to	40	Feet	6	10	- 8	7	8	8	6	11	8	4	11	7	6	11	8
40 to	50	Feet	8	14	11	19	13	12	8	15	12	8	14	11	8	15	13
58 to	60	Feet _	11	18	15	12	19	16	11	17	14	12	17	15	10	18	14
60 10	70	Feet	9	13	11	19	15	13	10	14	12	9	14	11	9	11	10
78 to	88	Feet	8	10	9	7	11	9	9	11	10	10	9	10	6	7	6
80 10	90	Feet	5	5	5	7	7	7	_6	6	6	6	6	6	4	3	3
90 to	109	Feet	4	3	3	4	3	*	4	4	4	5	3	4	2	2	2
above	188	Feet	41	13	27	34	11	23	41	15	28	42	13	27	46	15	38
Mean he	rght	Feet	104	67	86	95	66	89	193	78	86	107	66	86	111	67	89

PARAMETER	Y	EARL'	Y	Ji	AH-M	RR	j AF	-K-16	ยห	Jt	!L-SI	EP	Į o	CT-D	EC
	day	การ	din	day	nit	dan	day	nit	d&n	day	nit	din	day	nit	dEn
% occur ELESE dcts			3			1	,		5			3			3
% occur 2+ EL dcts			2	ļ		1	ļ		2	l		2			3
RVG station N			364	l		389	l		356	i		347			372
AVG station -H/Kft			18	Ī		20	l		17			17			19
AVG sfc wind Kts	11	10	10	11	_10	11	12	_11	11	13	11	12	3.1	7.4	7.7
									-						

Specified location: 5 00 S 125 00 E (+) INDICATES INSUFFICIENT DATA

Radiosonde source : 94120 12 25 S 130 52 E

Radiosonde station height: 95 Feet Surface obs source: HS323 5 00 S 125 00 E

DEDCENT ACCURDENCE AS ENGQUEST CURSACE_TA_CURSACE DATAB (SCM /CAM PANES)

PERCENT (CCURRENCE_	OF E	NHHN	CEB :	SURF	HCE-	10-51	URFRI	CE RI	HDAR-	/ESM	/COM	RHN	GES:		
FRE	QUENCY	Y	EARL'	Y	J	H-HH	AR	R	PR-J	UH	J	UL~SI	EP	0	CT-D	EC
L		day	nit	d&n	day	nit	d&n	day	nit	dŁn	day	nit	din	day	nit	dan
180	HHZ	2	0	1	1	9	1	3	8	1	2	9	1	2	- 0	
1	GHZ	45	15	38	37	13	25	47	16	32	46	15	30	48	16	32
3	GHz	54	20	37	47	19	33	57	22	48	56	21	38	55	28	38
6	GHz	77	55	66	73	56	64	80	60	79	79	56	68	76	48	62
10	GHz	91	82	87	91	84	87	93	84	89	92	84	88	98	74	82
20	GHz	96	92	94	95	92	94	98	94	96	96	92	94	96	88	92

SUPERCE RASED DUCT SUMMARY.

SUKFRUE BROED DUCT	<u>ייייייס</u>	ne ::													
PARAMETER	Y	EUDL.	Υ	3	คพ-หเ	AR .	RI	PR-JI	UN .	J	UL-S	ΕP	0	CT-DI	EC
	day	nıt	dhn	day	nit	d£n	day	nit	d£n	day	nit	d&n	day	nit	dtn
Percent occurrence	14	8	7	12	- 0	- 6	17	- 6	9	14	- 6	7	13	8	7
AVG thickness Kft	ı		-28	j		.17	l		.31			.43	l		.23
AVG trap freq GHz	[.83	[1.3	i		.59			.52	ĺ		.88
RVG lyr grd -N/Kft	1		115	1		115	ļ		107	i		133	Į.		107

ELEVATED DUCT SUKMARY:

PARAMETER	Y	EARL'	7 _	J	AH-HI	AR	RI	PR-J	ÜH	J	UL-SI	EP	Ö	CT-D	EC
	day	nit	dŧn	day	nıt	d£n	day	nit	d&n	day	nit	d&n	day	nit	din
Percent occurrence	21	- 0	11	9	0	5	30	0	15	23	9	12	23	- 0	12
AYG top ht Kft			6.0	ĺ		7.2	1		6.4	(5.5	i		5.1
AVG thickness Kft			.40			.34	L_		.37	L		.35	L		.56
AVG trap freq GHz			.66	Г		1.2		-	.58			.65			.34
AVS lyr grd -H/Kft	j		69	ĺ		66	(58	(59			57
AVG lyr base Kft			5.7			6.9	l _		6.1	<u> </u>		5.2			4.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCE	ÑŦ	OCC	URRENCE	YI	ERRL	'	J	คม-หเ	AR	AF	R-JI	JN	J	UL-SI	EP	00	T-DE	EC .
				day	nit	d&n	day	nit	đần	day	nit	d&n	day	ការដ	din	day	nit	dŁn
- 0	to	10	Feet	2	2	2	2	1	2	1	1	1	3	3	3	2	2	2
18	to	28	Feet	2	7	5	2	7	5	2	6	4	2	5	3	4	11	7
20	to	30	Feet	5	10	8	5	_9	_7	6	18	8	_ 5	_ 8	2	_6	13	10
30	to	40	Fees	7	11	9	8	13	10	6	9	8	6	11	9	7	12	10
40	to	50	Feet	9	15	12	12	15	13	9	16	12	8	17	13	8	14	11
50	to	68	Feet	10	1€	_13	10	20	15	9	15	13	21	16	13	16	14	12
60	to	78	Feet	9	11	10	10	11	11	9	13	11	è	11	10	8	- 3	3
70	to	80	Feet	7	7	7	7	6	6	8	9	8	6	3	7	5	5	5
88	to	98	Feet	5	_ 4	4	_ 5	4	4	6	4	5	6	4	_ 5	i4.	3	. 3
90	te	100	Feet	3	2	3	4	2	3	3	2	3	4	3	3	2	1	2
abo	ve	163	Feet	49	15	27	34	13	23	41	16	29	40	15	28	45	16	38
Hean	h	eigh	t Feet	184	65	85	95	63	79	107	69	88	184	66	85	118	64	87

PARAMETER	YERRLY	Jan-Har	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit dan	day nit dan	day nit dan	day nit dan
% occur ELESB dcts	3	1	5	3	3
% occur 2+ EL dcts	2	1	2	2	3
AVG station N	364	389	356	347	372
RVG station -N/Kft	18	. 20	17	17	19
AVG sfc wind Kts	9.6 8.1 8.6	10 8.6 9.2	8.9 8.2 8.5	10 10 10	7.1 6.1 6.6

Specified location:

5 00 S 115 00 E

(*) INDICATES INSUFFICIENT DATA

П

Radiosonde source: 96743 6 69 S 186 51 E Radiosonde station height: 16 Feet

Radiosonde station height: 1 Surface obs source: MS324 5 6

5 00 S 115 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

PERCENT OCCURRE	ICE OF EMAN	ICED :	SUKF	TUE-	0-50	PELL	SE RE	אחעה	ESIL	CUR	KHA	<u> 163.</u>		
FREQUENCY	YEARL	Ŷ.	Jſ	H-MF	1R	RI	PR-JI	JH	Ji	JL-SI	P	0	CT-DI	EC
	day nit	d&n	day	nit	d&n	day	nit	_d&n	day	nit	din	day	nit	dan
180 MHz	8 8	0	0	0	. 6	8	8	0	9	8	9	Θ	0	9
1 GHz	36 14	25	30	9	20	37	14	26	39	16	28	38	15	27
3 GHz	44 28	32	37	15	26	46	22	34	49	22	35	44	18	31
6 GHz	70 54	62	65	55	60	74	55	65	74	58	66	68	49	58
10 GHz	90 83	86	87	84	86	92	81	86	91	87	89	88	89	84
20 GHz	96 92	94	96	93	94	96	91	94	95	93	94	96	91	93

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL'	7	31	AN-M	R.	A	R-JI	JH	J	UL-SI	ΕP	0	CT-DI	EC
	day	nit	d&n	day	nit	d‡n	day	nst	dŁn	day	nit	dan	day	nit	đŁn
Percent occurrence	1	0	1	1	Ø	1	2	0	1	1	- 0	1	1	0	1
AVG thickness Kft			.29	ı		.47	i		.22			.26	İ		.20
AVG trap freq GHz			.74	l		.61			.29			.22			1.8
AVG lyr grd -N/Kft			999			999			999			650			999

ELEVATED BUCT SUMMARY:

PARAMETER	YE	ERRL'	Υ —	31	เห=นิค	RF.	A'	'R-J	UR	Jŧ	JL-S!	P	00	CT-DI	EC
	day	nit	dŁn	day	nit	d&n	day	nit	dŁn	day	nit	d&n	day	ខារ	d&n
Percent occurrence	3	0	1	2	9	1		0	2	4	- 0	2	2	- 9	1
AVG top ht Kft			5.3	i		4.7	l		5.8	l		5.4			5.3
AVG thickness Kft			.92			1.6	l		1.0			.51	l		.50
AVG trap freq GHz			1.2			1.8			1.1			1.4			.49
AVG lyr grd -N/Kft			89	Į.		79	1		123			61	l		55
AVG lyr base Kft	l		4.8			3.7	i		5.5	l		5.0	_		4.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PERCENT	occu	RRENCE	Y	PRL	7	J	AN-M	AR	Al	R-J	אנ	7	UL-SI	EP	0	CT-DI	EC
			day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d£n	day	nit	d&n
6 to	16	Feet	1	1	1	1	1	1	1	1	1	2		2	1	2	1
18 to	20	Feet	3	6	5	3	5	4	3	7	5	3	6	4	3	7	5
28 10	30	Feet	6	10	8	8	10	9	5	10	8	4	_ 7	6	8	11	10
38 to	40	Feet	8	12	10	9	10	16	6	10	8	6	13	10	18	14	12
40 to	56	Feet	11	17	14	13	18	16	11	16	14	11	16	13	111	17	14
58 to	60	Feet	11	16	13	11	18	14	13	15	14	و	15	12	12	15	13
68 to	70	Feet	9	11	10	11	13	12	9	11	10	10	12	11	8	9	9
78 to	ខម	Feet	6	8	7	7	ė	S	7	7	で	7	9	8	4	6	5
80 10	98	Feet	4	4	4	4	_ 5	. 4	<u> 5</u>	_ 5	5	5	- 4	5	4	3	3
98 to	166	Feet	3	2	2	3	ī	2	1 4	2	3	4	3	3	5	- 2	3
abov €	189	Feet	36	14	25	29	9	19	36	14	25	39	16	28	38	15	27
Hear he	nght	Feet	98	65	81	87	61	74	99	66	83	163	67	85	199	65	83

PARAMETER	YEARLY	JAN-HAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit dtn	day nit dan	day nit dan	day nit dan
% occur ELSSB dcts	0	0	0	8	8
% occur 2+ EL dcts	9	9	8	9	1
AVG station N	384	384	385	392	383
AVG station -N/Kft	17	18	17	18	17
AVG sfc wind kis	9.3 8.6 8.9	16 10 10	9.4 8.2 8.8	10 9.3 10	7.5 7.4 7.5

Specified location: 6 09 S 106 51 E' (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 96743 6 89 S 186 51 E

Radiosonde station height: 16 Feet

Surface obs source: HS325 5 80 S 185 80 E

PERCENT OCCURRENCE OF ENHANCED SUPFACE-TO-SURFACE RADAR/ESM/COM RANGES:

CHCCHI OCCONFERSE	UF 5	WILLIAM.	CED	SURF	nce-	0-3	<i>JP</i> F 71	UE KI	TUNK!			CHIN	<u> </u>		
FREQUENCY	Y	ERRL'	Ÿ	J	AH-HA	ìŘ	A!	R-JI	JH	31	JL-SI	P	0(CT-DI	EC
	day	กเน	dŁn	day	mit	dan	day	nit	din	day	nit	₫&n	day	nıt	d&n
100 MHz	6	- 8	8	8	8	0	8	8	0	Ø	8	- 0	0	- 0	0
1 GHz	28	13	20	26	11	19	32	13	22	29	15	22	26	11	18
3 GHz	36	29	28	33	16	25	38	20	29	40	24	32	33	17	25
6 GHz	68	58	63	63	53	59	69	59	64	76	68	72	63	51	57
10 GHz	89	87	88	88	84	86	90	87	98	93	91	92	86	85	86
20 GHz	96	95	95	95	92	94	97	95	96	98	96	97	93	94	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	31	คพ-พ	₹R	AF	R-JI	JH	J	UL-SI	P	0.0	CT-B	EC
	day	nit	din	day	nit	dan	day	nıt	dŁn	day	nit	d&n	day	nit	d&n
Percent occurrence	1	8	1	1	0	1	2	8	1	1	- 0	1	1	0	1
AVG thickness Kft	i		.29	ĺ		. 47	ļ.		.22	1		. 26			.20
AVG trap freq GHz			.74	1		.61	ĺ		. 29			.22			1.8
AVG lyr grd -N/Kft	<u> </u>		999	L		999			999			658			999

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	31	H-H	AR	AI	PR-JI	ИN		UL-SI	ΕP	G	CT-DI	EC
	day	nit	dŧn	day	nit	d&n	day	nit.	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	0	1	2	8	1	3	9	2	4	9	2	2	9	1
AVG top ht Kft	ľ		5.3	i		4.7	[5.8	[5.4	ĺ		5.3
AVG thickness Kft			.92			1.6	Ī		1.6			.51			.50
AVG trap freq GHz			1.2			1.8			1.1			1.4			. 49
AVG lyr grd -N/Kft			88			79	!		123			51			55
AVG lyr base Kft			4.8	1		3.7	l		5.5	l		5.0	ŀ		4.9

EVAPORATION DUCT HISTOGRAM IN PEPCENT OCCURRENCE:

PERCENT 0	CCURRENCE	Y	ARL	7	J	H-HE	R.	AF	-R-J	¥	7	JL-SI	9	50	T-DE	:C
		day	nit	dan	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 1	8 Feet	ī	1	1	1	1	1	1	1	1	1	1	1	2	1	1
10 to 2	8 Feet	3	5	4	4	7	6	2	5	3	1	2	2	5	5	5
28 to 3	0 Feet	7	8	7	8	8	8	8_	8	8	4	5_	5	7	9	8
30 to 4	0 Feet	ε	11	9	9	11	18	8	11	10	6	8	7	9	14	11
40 to 5	0 Feet	14	18	16	16	19	18	12	16	14	12	15	14	15	28	18
50 to 6	0 Feet	14	18	16	15	19	17	15	19	17	13	18	15	13	18	15
60 to 7	0 Feet	11	12	12	9	12	10	11	14	12	13	14	14	19	19	10
78 to 8	0 Feet	7	8	7	6	6	6	6	7	6	10	12	11	7	6	7
_ 80_to 9	0 Feet	5	5	5	4	3	4	4	5	5	6	6	. 6	4	4	4
90 to 1	88 Feet	3	2	3	3	1	2	2	2	2	5	3	4	3	3	3
above i	90 Feet	28	13	28	25	11	18	31	13	22	29	15	22	26	11	13
Mean hei	ght Feet	86	65	76	82	61	71	89	66	77	91	71	81	84	61	72

PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit dan	day nit dan	day nit dan	day nit dan
% occur EL&SB dcts	8	9	9	8	0
% occur 2+ EL dcts	0	9	9	8	1
RVG station H	384	384	385	382	383
AVG station -N/Kft	17	18	17	18	17
AVG sfc wind Kts	18 9.4 18	10 9.0 9.3	8.9 8.4 8.7	12 12 12	10 8.6 9.0

Specified location: 5 00 S 95 00 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 96996 12 10 S 96 49 E Radiosonde station height: 10 Feet Surface obs source: MS326 5 00 S 95 00 E

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PERCENT OCCUPRENCE OF ENHANCED SUPERICE-TO-SURFACE RADRE/ESM/COM RANGES:

BEKCENT OCCURRENCE	OF ENH	HNCED	SURF	HLL-	<u>10-St</u>	IKEHI	<u>, E Ki</u>	INHK -	EST!	CUR	KHN	<u>.E5:</u>		
FREQUENCY	YER	RLY	7 3	AN-H	AR T	A	R-Ji	JN:	Ţ	JL-SE	P	0	CT-DE	EC
L	day n	it de	n day	nıt	dŁn	day	nit	d&n	day	การ	d&n	day	nit	d&n
100 MHz	1	9	3 1	0	1	Ø	- 0	0	1	. 0	Ø	1	0	Ø
1 GHz	31	19 2	1 29	10	28	34	12	23	35	10	22	27	8	17
3 GHz	49	16 2	B 35	15	25	43	18	39	47	18	_ 33	34	14	24
6 GHz	68	52 6	3 62	47	54	71	52	61	77	- 68	69	61	50	56
10 GHz	89	83 8	6 86	77	82	90	84	87	93	88	90	87	82	84
20 GHz	95	92 9	4 94	88	_91	95	94	95	96	94	95	94	92	93

SUPFACE BASED BUCT SUMMARY:

PARAMETER	Y	EARL'	Y	J	RN-M	AR	A	R-J	JH	31	UL-S	EP	0	CT-DI	EC
	day	nit	d&n	day	nit	d&n	day	nit	dan	day	nit	dkn	day	nit	dan
Percent occurrence	5	- 0	2	6	0	3	з	. 0	2	3	0	2	6	. 0	3
AVG thickness Kft	l		.31			.36			.19			. 45	İ		.26
AYG trap freq GHz	ļ		.65	l		.53	i		1.2	1		.28	ļ		. 64
AVG lyr grd -N/Kft	ł		163	Į.		119	l		159	1		253	l		122

ELEVATED DUCT SUMMARY: PARSHETER JAN-MAR APR-JUN JUL-SEP OCT-DEC YEARLY day nit din day nit den day nit d&n day nit d&n day nit dan Percent occurrence 10 11 6 10 24 12 AYG top ht Kft 6.6 6.3 6.3 6.6 7.2 AVG thickness Yft . 43 .43 . 46 .44 . 41 AVG trap freq GHz .36 .34 .36 .33 .43 AVG lyr grd -H/Kft 57 60 61 60 60 6.9 AVG lyr base Kft 6.3 6.0 6.0 6.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT OCCURREN	CE Y	EARL	Y	J	AN-M	RR	Aī	R-J	JN	J	UL-SI	EP	0	CT-DI	EC
	day	nit	din	day	nit	d&n	day	nit	d&n	day	nıt	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2
18 to 20 Feet	. 3	7	5	4	11	7	2	5	4	3	5	4	4	6	5
_ 20 to 30 Feet	5	9	- 8	9	11	10	5	10	8	4	6	5	8	10	9
30 to 40 Feet	9	12	11	10	13	11	9	13	11	5	11	8	11	13	12
40 to 50 Feet	13	18	16	15	18	17	11	19	15	11	17	14	16	19	17
50 to 60 Feet	12	16	14	14	16	15	19	16	13	12	16	14	13	15	14
60 to 70 Feet	; 10	12	11	9	9	9	11	10	10	11	15	13	9	13	11
70 to 80 Feet	7	. 8	8	6	7	7	8	8	8	9	10	9	7	8	7
80 to 90 Feet	5	4	4	3	2	3	5	4	5	_ 7	5	6	4	3	_ 4
90 to 100 Feet	3	2	3	2	2	2	4	2	3	5	3	4	3	2	3
above 100 Feet	29	10	20	26	10	18	33	12	22	33	10	22	24	8	16
Kean height Fee	: 87	60	73	82	58	70	94	63	_ 79	93	62	77	79	57	68

PARAHETER	YEARL	Y	JI	H-KA	1R	AF	R-J	JH	- 31	JL-SE	EP	ŏ	T-D!	C
	day nit	den	day	กาเ	dtn	day	nit	dan	day	nit	dan	day	nıt	den
% occur EL&SB dcts		1			1			1			9			1
% occur 2+ EL dcts	Ï	2	1		2			1	İ		1	İ		3
AVG station N		362	l		363			364			360			362
AVG station -N/Kft		16	i		16	İ		16			16	ŀ		16
AVG sfc wind Kis	16 9.5	10	8.4	7.5	7.9	10	9.0	9.5	12	11	12	10	16	10

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

(*) INDICATES INSUFFICIENT DATA 7 21 8 72 28 E Specified location: 72 28 E Radiosonde source : 61967 7 21 S Radiosonde station height: 3 Feet

Surface obs source: MS328 5 00 S 75 00 E

PEDCENT OCCUPATION OF ENHANCED SUPERCE-TO-SUBFACE DADAD/ESM/COM DANCES.

PERCENT OCCURRENCE	OF ENDANG	כעם.	UKFR	105-1	0-50	<u>) </u>	-E RF	אחעו	E 211	CUN	KRM	<u> </u>		
FREQUENCY	YEARLY	, _	JA	N-MA	IR .	RF	R-Jt	JИ	Jt	JL-SE	Р	00	T-DE	Ç
	day nit	den	day	nit	d&n	day	nıt	d&n	day	nit	dŧn	day	nit	d&n
100 MHz	2 2	2	4	2	3	3	3	3	0	3	1	2	2	2
1 GHz	40 18	29	58	19	35	45	19	32	28	15	21	38	16	27
3 GHz	51 26	39	60	27	43	58	28	43	41	23	32	47	24	36
6 GHz	79 60	70	82	57	69	84	63	73	76	61	69	76	-58	67
10 GHz	94 87	91	93	82	88	96	88	92	94	98	92	94	87	90
20 GHz	98 95	96	_ 98	92	95	98_	94	96	98	97	97	98	95	97

SUPERCE ROSED DUCT SUMMARY.

PARAMETER	Y	EARL	7	31	AN-M!	AR .	RF	R-J	HL	Jt	JL-SI	P	00	T-DI	EÇ
	day	nit	d&n	day	nit	d&n	day	ιit	d&n	day	nit	d&n	day	nit	d&n_
Percent occurrence	17	17	17	37	18	28	17	17	17	- 0	14	7	15	17	16
AVG thickness Kft			.28	l		.26	İ		.28	l		.31	1		.26
AVG trap freq GHz			.74	ĺ		1.2	1		.59	1		.43	1		.81
AVG lyr grd -N/Kft	Ĺ		168	L		231	Ĺ		117	Ĺ		194	Ĺ		129

ELEVATED DUCT SUMMAR	?Y:														
PARAMETER	Y	EARL	7	J	AN-MA	iR	AI	R-J	אט	3	JL-SI	EΡ	01	CT-DI	EC
	day	การ	dŁn	day	nit	d&n	day	nit	d&n	day	nit	dan	day	ոյե	d&n
Percent occurrence	29	35	32	27	39	33	25	40	33	29	32	31	36	28	32
RVG top ht kft			6.1	1		5.8	ĺ		5.3	İ		6.5	1		6.6
AVG thickness Kft	Ĺ		.52	<u> </u>		.51	l		.59			. 56			.40
AVG trap freq GHz			.33			.30	Γ		.23			. 32			. 45
AVG lyr grd -N/Kft			60	l		62	l		59	1		68	1		57
AVG lyr base Kft	<u> </u>		5.7	<u> </u>		5.5			4.8	L_		6.1			6.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCU	RREHCE	YI	EARL	•	Jí	N-MS	ìR	AF	R-J	JH	J	JL-SI	Р	00	T-DE	C
		day	nıt	d&n	day	การ	d&n	day	nti	d&n	day	nit	d&n	day	nıt	d&n
8 to 18	Feet	1	2	1	2	3	2	1	2	1	1	1	1	1	1	1
10 to 20	Feet	1	5	3	1	7	4	2	4	3	2	3	2	1	5	3
28 to 38	Feet	5	9	7	6	11	9	3	8	5	4	8	6	5	_ 9	7
38 to 48	Feet	7	13	10	7	11	- 9	5	12	9	7	13	10	8	16	12
48 to 50	Feet	11	18	14	9	18	14	19	17	13	11	20	16	12	18	15
<u>5</u> 9 to 69	Feet	12	18	15	13	16	15	8	18	13	13	19	16	13	19	16
60 to 78	Feet	11	13	12	10	11	10	11	14	13	13	14	14	11	13	12
70 to 80	Feet	8	7	8	5	5	5	10	8	9	18	:0	16	8	7	7
80 to 90	Feet	6	4	5	3	3	3	8	5	6	8	5	6	<u> </u>	4	_5
98 to 100	Feet	4	2	3	3	2	_3	5	2	3	5	2	3	3	1	2
above 108	Feet	35	9	22	40	12	26	39	10	24	28	5	17	32	8	28
Hean height	Feet	97	59	78	103	61	82	104	61	83	89	57	73	94	58	76

GE1161116 112 1 COL 0 CO	. 001/11/11/11				
PARAMETER	YERRLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
L	jday nit d&n	day nit dan	day nit dan	day nit dan	day nit din
% occur ELASB de:	3	5	:	- 3	2
% occur 2+ EL dct	s 8	12	8	5	6
AVG station N	391	387	379	377	381
AVG station -N/Kf	t 18	19	18	17	17
AVG sfc wind Kts	11 10 10	8.4 7.3 7.9	11 18 10	13 12 13	10 8.9 10

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

0 40 S 73 18 E (*) INDICATES INSUFFICIENT DATA Specified location: Radiosonde source : 41350 0 40 S 73 10 E Radiosonde station height: 7 Feet Surface obs source: MS328 5 80 S 75 00 E

DEDCENT ACCURRENCE OF ENHANCED CUREOUS TO CUREOUS DODOR COM COM DOMESCO

PERCENT OCCURRENCE	OF ENHANCE	ED SOR	FHUE-10-5	CREHCE KHUHR	VESMACUP KHR	<u> </u>
FREQUENCY	YEARLY		JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit	d&n da	y nit dan	day nit d&n	day nit dan	day nit dan
100 MHz	5 8	2	5 0 3	5 0 3	5 0 2	4 0 2
1 GHz	47 9	28 5	2 12 32	51 10 31	42 5 24	42 8 25
3 GHz	59 15	37 6	1 17 39	64 16 48	57 12 35	52 13 33
6 GHz	83 53	68 8	2 49 66	86 56 71	84 55 69	78 51 65
10 GHz	95 84	90 9	3 79 86	97 85 91	96 89 92	94 85 98
20 GHz	98 94	96 9	8 98 94	99 93 96	99 96 98	98 94 96

PARAMETER	YEARL	Ÿ	J	AN-MA	1R	A	PR-JI	ИL	Ji	JL-SE	P	00	CT-DE	C
	day nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	33 0	16	37	Ø	19	32	0	16	37	- 0	19	24	9	12
AVG thickness Kft		.27	l		. 25			. 29	i		. 25	i		.31
RVG trap freq GHz	Į.	.69	1		.81			.52			.85	1		.60
AVG lun and -NrKft	1	111	ł		121			103			183	l		118

ELCUATED BUCT CHAMABU

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PARAMETER	Y	EARL'	Υ	J	AH-MA	1R	-AF	R-JI	ИL	- 31	JL−SE	P	0.0	CT-Di	EC
	day	nıt	d&n	day	nit	d&n	day	nit	d&n	day	nıt	dŁn	day	nit	d&n
Percent occurrence	10	8	- 9	11	33	22	8	8	4	7	. 9	-4	13	8	7
AVG top ht Kft	ł		5.8	1		3.0	i		8.1	ļ		8.1	l		4.1
AVG thickness Kft			.38	l		.57			.30	<u> </u>		.29			.38
AVG trap freq GHz			.86			.29			1.2			1.4			.51
AVG lyr grd -N/Kft			58			69	l		56	l		56	l		58
AVG lyn base Kft	i		5.5	İ		2.5			7.9	l		7.9	i		3.8

EVAPORATION BUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	occu	RRENCE	Y	EARL	r	Jí	3H-H	R.	l AI	PR-JI	JN	31	UL-SI	ĒΡ	00	CT-DE	EC
L			day	nıţ	d&n	day	nit	d&n	day	nit	d&n	day	nit	dan	day	กเร	d&n
O to	10	Feet	1	2	<u>i</u>	2	3	2	1	2	1	1	1	1	1	1	1
16 to	20	Feet	1	5	3	1	7	4	2	4	3	2	3	2	1	5	3
20 10	30	Feet	5	9	7	6	11	9	3	8	5	4	8	6	5	9	7
38 to	40	Feet	7	13	18	7	11	9	5	12	9	7	13	10	8	16	12
40 10	50	Feet	11	18	14	9	18	14	10	17	13	11	20	16	12	18	15
50 10	60	Feet	12	18	15	13	16	15	8	18	13	13	19	16	13	19	16
60 to	78	Feet	11	13	12	10	11	10	11	14	13	13	14	14	11	13	12
70 to	89	Feet	8	7	8	5	5	5	! 18	8	9	10	19	10	8	7	7
30 to	98	Feet	6	4	5	3	3	3	8	5	6	8	_ 5	6	5	4	5
90 to	199	Feet	4	5	3	3	2	3	5	2	3	5	2	3	3	1	2
above	100	Feet	35	9	22	40	12	26	39	10	24	28	5	17	32	8	28
Mean he	E 1 ght	Feet	97	59	78	103	61	82	194	61	83	89	57	73	94	58	76

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Į	PARAMETER	YE	ARLY	r	Ji	AH-Mi	ar	AF	7R-JI	UN	JU	JL-SI	EP	0:	CT-DI	EC
ı		day	nit	d&n	day	nit	den	day	nıt	dan	day	210	d&n	day	nit	d&n
I	% occur EL&SB dcts			- 2			2			2			- ;			3
1	% occur 2+ EL dcts	ĺ		1	i		1	l		1	l		9	1		3
ı	RYG station N	1		383	l		381	ĺ		384			386			381
	AVG station -N/Kft	1		20	i		19	ļ		20			21			19
1	AVG sfc wind Kis	11	10	16	8.4	7,3	7.9	11	10	10	13	12	13	19	8.9	10
•																

Specified location: 5 00 S 45 00 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 63894 6 52 S 39 12 E

Radiosonde station height: 180 Feet

Surface obs source: MS331 5 00 S 45 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESH/COM RANGES:

FREQUENCY	Y	EARL	Ÿ	JI	AH-M	AR	RI	PR-JI	ווט	J1	JL-SI	EP	00	T-D1	EC
	day	nit	d&n	day	nit	d&n	day	nit	dan	day	nit	d&n	day	nit	d&n
160 MHz	1	1	1] 1	1	1	2	1	1	1	- 0	1	2	1	1
1 GH≥	40	10	25	49	13	31	39	18	24	29	7	18	46	11	28
3 GHz	51	17	34	58	21	_39	51	18	_34	42	12	_27	55	16	36
6 GHz	79	56	68	81	60	78	82	63	72	74	53	63	80	59	65
10 GHz	93	86	98	93	87	90	94	89	92	91	87	89	93	82	88
20 GHz	96	93	95	96	94	95	97	94	95	95	94	95	97	91	94

SUPPRIE BASETI DUCT SUMMARY:

PARAMETER	YEARL	Y	31	RH-HI	R.	AI	R-J	JH	JI	JL-S	P	01	CT-DI	EC
	day nit	d&n	day	nit	dan	day	nit	dan	day	nit	d&n	day	nit	dan
Percent occurrence	12 7	- 5	11	18	11	16	- 6	11	4	3	4	16	9	13
RVG thickness Kft		.19	ĺ		. 10			. 21	ļ		.28			. 15
AVG trap freq GHz		1.4	i		1.8			1.3	i		.55			2.0
AVG lyr grd -N/Kft		215	L		155	Ĺ		319			185			288

ELEVATED DUCT SUMMARY:

PARAMETER	Y	ERRL	Y	J	AN-K	P.R	Ri	PR-J1	ווט	31	JL-St	EP	01	CT-DI	EC
	day	nit	d£n	day	nıt	dan	day	nit	d&n	day	nıt	dŁn	day	O1 t	din
Percent occurrence	8	13	18	9	7	8	6	9	- 8	11	15	13	6	19	13
AVG top ht Kft	•		6.1	Ì		4.8	Ì		5.9	[7.9	ĺ		5.9
AVG thickness Kft	i		.46	l		.50	1		.48	İ		. 42	1		.46
AVG trap freq GHz			.40			.30			.38			.51			.41
AVG lyr grd -N/Kft	i		61	İ		61	i i		58	Ì		64	1		59
AVG lyr base Kft	[5.8	1		4.5			5.5	l		7.6	ĺ		5.5

EVAPORATION BUCK HISTOCRAN IN PERCENT OCCURRENCE.

PERCENT	OCC	URRENCE	YE	ARLY	'	36	3N-NF	R.	AF	R-JU	JK	Jt	IL-SE	P	0.0	T-DE	EC
			day	nit	den	day	nit	dŁn	day	nit	d&n	GAY	nit	dan	day	nit	dan
0 to	10	Feet	2	1	2	2	1	1	2	2	-2	3		- 2	2	1	2
10 to	28	Feet	2	5	4] 2	6	4	j 1	4	3	3	3	3	2	8	5
20 to	30	Feet	4	7_	6	3	8	_ 5	_3	5	4	4	_7	6	4	18	. 7
39 10	40	Feet	6	12	9	5	11	8	5	10	8	7	14	11	6	14	10
48 10	50	Feet	9	19	14	3	18	13	8	18	13	11	21	16	9	26	14
58 to	69	Feet	11	29	15	9	19	14	12	_21	16	12	_20	16	10	20	_ 15
60 10	70	Feet	16	13	12	9	14	11	13	15	14	11	13	12	9	10	16
70 to	98	Feet	9	8	8	7	8	8	10	11	18	16	8	9	7	5	•
80 to	98	Feet	6	4	5	5	4	_ 5	7	_ 5	6	. 8	_ 3	6	5	2	. 4
90 to	108	Feet	1 4	2	3	3	2	3	4	7	- 3	5	2	3	3	1	- 7
above	100	Feci	37	7	22	46	13	28	34	7	21	27	5	16	42	8	2
tlean h	e i ahi	i Feet	101	58	89	114	€2	88	97	60	78	85	55	70	167	56	8

PARAMETER	YERRLY	7	JE	M-HI	AR	RF	R-JI	JH	31	UL-SI	ΕP	01	CT-DI	EC
	day nit	d&n	day	nıt	d&n	day	nit	dŧn	day	nıt	dŁn	day	nıt	dkn
% occur EL&SB dcts	i	1			1			1			0			1
% occur 2+ EL dcts	ļ	0			8			8	Į.		1			1
AVG station N	í	370	i		379	[372	ľ		357			372
AVG station -N/Kft		16	l		18	i .		16			14	i		18
AYG sec wind Kts	12 11	:1	9.3	9.1	9.2	12	12	12	15	14	14	18	9.1	9.4

Specified location: 6 52 S 39 13 E (*) INDICATES INSUFFICIENT DATA

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Radiosonde source : 63894 6 52 S 39 12 E

Radiosonde station height: 180 Feet Surface obs source: MS331 5 00 S 45 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SUPFACE RADAR/ESM/COM RANGE::

TENCENT OCCUMENCE															
FREQUENCY	Y	EARL'	Y	J	AN-MI	R.	j Al	PR-J1	JH	J 31	JL-SI	EΡ	01	CT-DI	EC
	day	nit	dŧn	day	nit	dan	day	nit	dkn	day	nit	d&n	day	nıt	dån
100 MHz	1	1	1	1	1	1	2	1	1	1	- 0	1	2	1	1
1 GHz	40	10	25	49	13	31	39	10	24	29	7	18	46	11	2.8
3 GHz	51	17	34	58	21	39	51	18	34	42	12	27	55	16	36
6 GHz	79	56	68	81	68	70	82	63	72	74	53	63	80	50	65
10 GHz	93	86	98	93	87	98	94	89	92	91	37	89	93	82	88
20 GHz	96	93	95	9€	94	95	97	94	95	95	94	95	97	91	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL	7	J	AN-MI	iR	AF	R-J1	JN	J	JL-SI	Р	01	T-DI	EC
1	day	nit	d&n	day	nıt	dan	day	nıt	dan	day	nit	dŧn	day	nıt	d&n
Percent occurrence	12	7	9	11	10	11	16	6	11	4	3	4	16	9	13
AVG thickness Kft	i		.19	ì		. 10			.21			.28	l		. 15
AVG trap freq GHz			1.4	l		1.8	ļ.		1.3			. 55	Į.		2.8
AVG lyr grd -N/Kft	L		215			155		_	319			185			200

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	7	Ji	AN-M	AR	A	R-JI	JH	JI	JL-SI	EΡ	00	it-Di	EC
	day	nit	dŁn	day	nit	_d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	13	10	9	7	8	6	9	8	11	15	13	6	19	13
AVG top ht Kft			6.1	i		4.8	i		5.9	i		7.9	1		5.9
AVG thickness Kft			.46			.58			.48	l		. 42	!	_	.46
AYG trap freg GHz			.40			.30			.38			.51			.41
AVG lyr grd -N/Kft			61	l		61			58	i		64	1		59
AVG lyr base Kft			5.8	i _		4.5	İ		5.5	_		7.6			5.5

EVERAPATION BURT MICTOCREM IN REPORT APPRIRENCE.

PERCENT OC	CURRENCE	YE	ARL	1	Ji	AN-MA	R .	AF	R-JU	JH	Jt	JL-SE	P	- 00	:T-DE	:C
		day	nit	dŁn	day	nit	d&n	day	nıt	d&n	day	nit	den	day	nit	d&n
8 to 10	Feet	2	1	2	2	1	$\overline{1}$	2	2	2	3	2	2	2	1	2
10 to 20	Feet	2	5	4	2	6	4	1	4	3	3	3	3	2	8	5
20 to 39	Feet	_ 4	7	6	_3	8	5	3	5	4	4	7	_ 6	4.	10	. 7
30 to 40	Feet	6	12	9	5	11	8	5	10	8	7	14	11	6	14	10
48 to 58	Feet	9	:9	14	8	18	13	8	18	13	11	21	16	9	28	14
50 to 60	Feet	11	28	15	9	19	. 14	12	21	16	12	28	16	10	20	15
60 to 70	Feet	10	13	12	9	14	11	13	15	14	1:	13	12	9	10	10
70 to 80	Feet	9	8	8	7	8	8	19	11	16	10	8	9	7	5	6
88 to 98	Feet	<u> </u>	4	5	5	4	5	7_	5	_ 6	8	3	_ 6	5	2	4
98 to 18	6 Feet	4	2	3	3	2	3	4	2	3	5	- 2	-3	3	1	2
above 10	8 Feet	37	7	22	46	18	28	34	7	21	27	5	16	42	8	25
Hean hero	ht Feet	191	58	80	114	62	88	97	68	78	85	55	70	187	56	82

PARAMETER	YEARLY	JAN-HAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit dan	day nit dan	day nit dan	day nit dan
% occur EL&SB dcts	1	1	1	0	1
% occur 2+ EL dcts	9	9	9	1	1
AVG station N	378	379	372	357	372
AVG station -N/Kft	16	18	16	14	18
A'G sfc wind Kts	12 11 11	9.3 9.1 9.2	12 12 12	15 14 14	10 9.1 9.4

Specified location: 8 51 S 13 13 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 66160 8 51 S 13 13 E

Radiosonde station height: 243 Feet

Surface obs-source: MS370 15 00 S 15 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES

PERCENT OCCURRENCE	DF E	NHAHO	CED	SURFI	JCE-	<u> 10-SI</u>	URFRE	ER	adar.	<u>ESM</u>	/COM	RANG	<u>:ES:</u>		
FREQUENCY	7	EARLY	~	J	3H-H	R	FIF	R-JI	JN	ĭ	JL-SI	EP	ō	T-DE	C
	day	រារ	din	day	nit	dŁn	day	nit	d&n	day	nit	dkn	day	nit	der.
100 MHz	1	8	1	2	0	1	1	0	0	1	- 6	1	2	. 6	1
1 GXz	28	8	14	25	9	17	16	6	11	17	7	12	23	?	15
3 GHz	24	9	17	30	12	21	28	8	14	28	_8	_14	27	_ 9	_18
6 GHz	39	22	38	59	34	42	37	22	29	28	13	21	40	18	29
10 GHz	67	57	62	78	73	75	71	62	66	53	40	46	69	53	61
20 GHz	83	_ 77	80	89	87	88	_86	88	83	75	66	_71	83	74	79

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	ERRL'	7	J	AN-HI	1R	Af	R-J	JH	Ji	UL-SI	EP	01	CT-DI	EC
	day	nit	d&n	day	nit	dan	day	nit	dŁn	day	nit	d&n	day	nit	đěn
Percent occurrence	12	- 0	6	15	- 6	8	9	9	5	9	8	5	15	0	8
JAVG thickness Kft	}		. 16	1		.22	l		.12	l		.17	•		.12
9VG trap freq GHz	l		1.3	l		1.6	ļ.		1.5	ł		.69	l .		1.2
AVG lyr grd -N/Kft	<u> </u>		169	<u> </u>		235	Ĺ		130			182	Ĺ		127

ELEVATED DUCT SUMMARY:

ELETHIED DUCK SUNNIN	<u> </u>														
PARAMETER	Y	ERRL	Υ	J	AN-H	AR _	A	PR-JI	UH	7	UL-SI	EP	0	CT-D	EC
	day	nit	dkn	day	nit	dŁn	day	nit	dŁn	day	rit	d&n	day	nit	dan
Percent occurrence	14	23	19	- 6	17	12	23	33	28	26	42	31	7	- 0	4
AVG top ht Kft	}		4.0	ļ		4.6	•		2.7			4.5	l		4.4
RVG thickness Kft	l		.62	i		.61	l.		. 68			.51	1		.67
AVG trap freq GHz			.39	Г		.54			.28			.38			.36
AVG lyr and -N/Kft	1		57	1		52	1		55			58	l		63
AVG lyr base Kft	(3.5	ĺ		4.8	1		2.1	i .		4.1	1		4.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

EVAPURAT	TOIL	DOC! HIS	21041	KIND .	IN F	RUE	<u> </u>	-COK	ENCE	<u> </u>							
PERCENT	OCC	URREHCE	Y	EARL	1	J	AN-HI	1R	Ri	R-J	JN	J	UL-SI	EP	90	CT-DE	EC
			day	nit	d&n	day	nit	d&n	day	nit	dån	day	nit	dŁn	day	nit	d&n
0 to	10	Feet	8	9	-8	6	6	6	6	8	-7	9	11	10	9	10	. 9
18 to	20	Feet	11	15	13	7	7	7	9	12	11	18	23	20	i 10	17	14
_28_to	30_	Feet	18	20	_19	12	14	13	17	18	18	25	26	25	17	21	19
30 to	48	Feet	17	29	19	14	20	17	19	22	26	18	19	18	17	20	19
48 10	50	Feet	14	15	15	16	18	17	17	18	18	8	8	8	14	16	15
_50 to	68	Feet	9	6	9	12	15	13	11	_ 8	10	4	3	4	_9	_ 7	8
60 to	70	Feet	4	3	3	6	5	5	5	4	- 4	2	1		3	1	2
78 to	80	Feet	2	1	2	3	3	3	ļз	1	2	1	1	1	2	i	1
80 to	98_	Feet	1	1	1_	2	2	2	1_1	_ 1	1	1	1	1	1	_ 1	1
90 to	166	Feet	1	1		1	1	1	ī	ī	1	1	1	1	1	1	$-\bar{i}$
above	106	Feet	16	8	12	28	9	15	13	6	18	13	7	18	17	7	12
Hean h	e i gh	t Feet	57	43	50	68	52	68	55	_43	49	47	_37	42	58	41	49

PARAMETER	YE	ARL'	Υ.	J 36	3H-HI	RR) អ	アーノリ	, אט	J	リレーSE	EΡ	j o	CT-DI	EC
	day	nit	dkn	day	nit	dŧn	day	nit	din	day	nit	d&n	day	nit	din
% occur ELASE dets			1			1			8			2			2
% occur 2+ EL dcts			8	l		9			6			8	1		0
AVG station N			361	ĺ		368			365			350	•		361
AYG station -N/Kft			17	j		18			18			15	ļ		17
AVG sfc wind Kts	11	11	11	5.3	10	10	11	11	11	11	10	11	11	11	11

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Radiosonde source : 66160 8 51 S

Radiosonde station height: 243 Feet

Surface obs source: MS335 5 00 S 5 00 E

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM_RANGES:

FREQUENCY	YEA	RLY		Jf	H-H	R	AF.	R-JU	iH.	JU	IL-SE	θ.	00	T-DE	C
	day n	1 t	dan	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	din
100 MHz	1	A	1	2	Θ	1	1	- 0	0	1	. 6	1	2	8	1
1 GHz	34	7	21	36	9	22	42	10	26	31	6	18	26	5	15
3 GHz	41	12	26	43	16	29	49	17	33	38	. 8	23	33	8	21
6 GHz	66	44	55	71	58	64	75	57	66	60	30	45	58	33	45
10 GHz	91	87	89	94	93	93	91	91	91	88	79	84	91	84	87
20 GHz	95	96	95	97	97	97	95	96	95	93	94	94	96	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	ARL'	Y	J	AN-K	RR	RI	2-J	JH	JI	UL-SI	ΕP	01	CT-DI	EC
	day	nit	dŁn	day	nit	dan	day	nit	dŁn	day	nit	d&n	day	nit	₫&n
Percent occurrence	12	. 6	6	15		- 6	9	- 0	5	9	0	5	15	0	- 8
AVG thickness Kft	1		.16	į		.22	l		. 12	ŀ		.17	l		.12
AVG trap freq GHz	ĺ		1.3	1		1.6	1		1.5			.69	1		1.2
AVG lyr grd -N/Kft			169	<u>L</u>		235			130			182			127

ELEVATED DUCT SUMMARY:

PARAMETER	YEARL	7	J!	H-H	RR	- AI	PR-30	JN	JI	JL-SI	P	00	T-DI	EC
	day nit	dan	day	nit	d&n	day	nit	d&n	day	nit	dŧn	day	nit	dan
Percent occurrence	14 23	19	6	17	12	23	33	28	20	42	31	7	0	4
AYG top ht Kft		4.0	l		4.6	ĺ		2.7	i i		4.5	i		4.4
AVG thickness Kft		.62	.		.61			.68			.51	ļ		-67
AVG trap freq GHz		.39			.54			.28			.38			.36
AVG lyr grd -N/Kft	(57	(52	ĺ		55	ļ		58	I		63
AVG lyr base Kft	l	3.5	L		4.8	<u></u>		2.1			4.1			4.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENC	Y	EARL	Y	J1	AN-MA	ar 🔠	AF	R-Ji	אנ	Ji	JL-SE	P	00	T-DE	C_
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d£n	day	nit	d&n
8 to 18 Feet	3	1	- 2	2	1	2	3	5	2	4	1	3	2	2	2
10 to 20 Feet	3	3	3	3	2	2	2	3	3	з	4	4	3	3	3
28 to 38 Feet	<u> 5</u>	9	7	4	4	_ 4	4	5	5	5	15	19	7	11	9
30 to 40 Feet	12	18	15	٥	12	11	8	11	16	13	24	19	16	23	19
40 to 58 Feet	15	25	28	16	23	19	9	22	15	17	25	21	21	29	25
50 to 60 Feet	14	19	16	14	24	19	11	19	15	14	14	14	16	18	17
68 to 70 Feet	8	9	9	11	12	12	9	14	12	5	- 6	- 6	7	3	- 5
70 to 30 Feet	5	5	5	6	6	6	7	7	7	4	3	4	4	3	4
30 to 90 Feet	j_3	3	3	<u>]</u> 3	4	4	, з	4	3	4	1	3	3	2	3
90 to 100 Feet	2	2	2	2	3	2	3	3	3	2	1	2	2	1	2
above 100 Feet	39	7	19	32	9	20	40	18	25	27	6	16	21	5	13
Hean height Feet	88	56	72	91	63	77	102	64	83	92	49	65	75	49	62

PARAMETER	YEARLY	JAN-HAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day_nit dan	day nit dan	day nit dan	day nit dan
% occur EL&SB dcts	1	1	8	2	2
% occur 2+ EL dcts	8	8	0	9	9
AVG station N	361	368	365	350	361
AVG station -N/Kft	17	18	18	15	17
AVG sfc wind Kts	10 9.2 9.4	3.8 8.5 8.7	10 10 10	10 9.0 9.3	10 10 10

Specified location: 15 00 S 5 00 H (*) INDICATES INSUFFICIENT DATA Radiosonde source: 61902 7 58 S 14 24 H

Radiosonde station height: 282 Feet

Surface obs source: MS336 15 00 S 5 00 H

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

	Prepare Docombine	<u> </u>						****	<u> </u>		~~~			***		
1	FREQUENCY	Y	EARL'	Υ		AN-M	AR _	Ri	PR~JI	UN	31	JL-S	EP	O.	CT-D!	EC
1		day	n i t	d£n	day	nit	d&n	day	nit	d£n	day	nit	dkn	day	nit	d&n
	180 MHz	0	9	0	0	0	8	8	8	9	a	1	0	0	9	- 0
1	1 GHz	36	10	23	39	11	25	46	12	29	31	8	19	29	8	19
1	3 GHz	46	17	32	47	18	33	60	23	41	42	14	28	36	12	24
1	6 GHz	77	69	68	74	59	56	87	73	80	78	58	68	68	50	59
	10 GHz	93	98	92	92	89	91	95	94	95	94	91	93	91	88	89
1	20 GHz	97	96	97	96	95	96	97	98	97	97	98	98	96	95	96

SURFACE BASED DUCT SUMMARY:

SOLLUCE DUSED DOG! 3	DIMINIK I &				
PARAMETER	YERRLY	JRN-MAR	APR-JUN	JUL-SEP	OCT-DEC
l	day nit dan	day nit dan	day nit dan	day nit dan	day nit dan
Percent occurrence	4 3 3	6 4 5	4 3 4	2 4 3	3 1 2
AVG thickness Kit	.16	.14	.18	.21	-i1
AVG trap freq GHz	2.7	3.0	1.8	.86	5.1
AVG lyr grd -N/Kft	219	280	102	97	475

SIEVATED DUCT SUMMARY:

PARAMETER	Y	ERRL'	Y	J	AH-H	AR.	AI	R-J	JN	_ JI	JL-SI	EP	Ö	CT-DI	EC
	day	nit	den	day	nit	din	day	nit	dan	day	nit	din	day	การ	dan
Percent occurrence	50	45	48	43	43	43	43	42	43	59	50	55	56	46	51
AVG top ht Kft			5.5			5.2	i		5.8	[5.7	l		5.1
AVG thickness Kft	I		.64	L		.59	l_	_	. 55	i .	_	.73	l		.68
AVG trap freq GHz			.18			.19			,23			.13			.16
AVG lyr grd -N/Kft	j		66	ı		66	ł		64	i		67	l		66
AVG lyr base Kft	(5.0	•		4.8	Ī		5.5	Į.		5.2	1		4.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT (DCCU	RRENCE	Y	EARLY	,	3	AN-XI	R .	AF	-R-JI	JH	J	UL-SI	EP	00	CT-DE	EC
			day	nıt	d&n	day	nit	din	day	nit	d&n	day	nit	din	day	nit	<u>dŧn</u>
8 to 1	10	Feet	2	1	1	2	2	2	2	1	-1	1	1	1	2	1	1
19 to 2	28	Feet	1	2	2	2	3	2	1	1	1	1	2	1	2	3	2
20 to 3	30	Feet	3	6	5	4	_6	5	2	4	_ 3	3	7	5	_ 5	. 8	_ 6_
30 to 4	40	Feet	6	11	9	7	11	9	3	7	5	5	13	9	9	15	12
48 to 5	50	Feet	11	20	15	12	28	16	5	15	10	12	21	16	15	23	19
58 to 6	60	Feet	12	21	16	12	22	17	8	21	14	13	21	17	15	28	_ 17_
60 to 7	70	Feet	16	15	13	9	12	11	10	18	14	14	16	15	10	12	11
78 to 8	80	Feet	8	8	8	7	7	7	10	12	11	9	9	9	7	6	6
88 to 9	90	Feet	6	4	5	5	4	4	_ 8_	6	7	_ 7	_4	6	4	2	3_
90 to	108	Feet	4	2	3	3	3	3	6	4	5	4	2	3	3	2	2
above	100	Feet	35	9	22	37	18	24	46	11	29	38	6	18	29	8	18
Mean he	ı ght	Feet	98	62	86	198	63	81	113	69	91	92	58	75	88	59	73

PARAMETER	YEARLY	JAN-HAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit din	day nit din	day nit dan	day nit dan	day nit dan
% occur EL&S& dcts	2	2	2	1	1
% occur 2+ EL dcts	9	8	9	9	9
AVG station N	356	363	368	347	353
RVG station -N/Kft	15	15	16	14	14
RVG sfc wind Kts	13 12 13	11 11 11	13 13 13	14 13 14	13 12 12

Specified Eccation:

13 00 S 38 31 W (*) INDICATES INSUFFICIENT DATA

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Radiosonde source: 83229 13 00 S 38 31 W

Radiosonde station height: 167 Feet Surface obs source: MS339 15 88 S 35 88 W

PERCENT OCCURRE	ACE OF ENHI	RICED	SURFI	HCE-	<u> </u>	RHH	CE RI	HUHK	LESU.	/LUM	KHN	<u> </u>		
FREQUENCY	YEAR	ELY	J	AN-MA	R T	A	<u> </u>	אנ	Jl	JL-S	P	00	CT-DI	EC
	day n	it dan	day	nit	den	day	nit	dkn	day	nıt	d&n	day	nit	d&n
100 MHz	1	1 1	1	0	1	*	*	#	8	3	2	1	0	1
1 GHz	41	12 27	45	10	27	*	₹.	*	34	17	26	45	9	27
3 GHz		19 35	54	16	35	*	*	4	46	26	36	54	15	34
6 GHz	79 (50 69	81	60	71	*	*	*	76	63	78	79	55	67
10 GHz	92	39 98	93	99	91	*	*	*	92	99	91	92	87	89
20 GHz	96 1	96 96	96	96	96		*	*	95	96	96	95	94	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	_ YI	EARL'	Υ	J	AH-HI	1R	AI	PR-J	JH	J	UL-SI	EP	0	CT-DI	EC
	day	nit	d&n	day	nit	d&n	day	nit	dtn	day	nit	d&n	day	nit	dŁn
Percent occurrence	5	5	- 5	10	9	- 5	0	0	0	3	19	11	7	8	4
AVG thickness Kft	1		.37	i		.31	ł		#	i		.35	ŀ		.44
AVG trap freq GHz	l		.76	l		1.1	}		#	l		.78			.48
AVG lyr grd -N/Kft	L		164	l		216	1	_		L		159	l		117

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL	Y	J	A-H	AR	AI	PR-JI	UN	JI	JL-SI	Ρ	00	CT-DI	EC
	day	nıt	dŁn	day	nıt	d&n	day	nit	dkn	day	nit	d&n	day	nit	d&n
Percent occurrence	18	8	13	25	0	13	13	0	7	20	33	27	14	9	7
AYG top ht Kft			7.3	J		6.6	l		6.1	ļ		8.2	1		8.3
hVG thickness Kft			.49	į .		.59	i		.39			.42			.57
AVG trap freq GHz			.41			.26			.47			.54			.38
AVG lyr grd -N/Kft	l		61	i		63	l		58	ļ		61	l		63
AVG lyr base Kft	ļ		6.9	l		6.2	1		5.8	1		7.8	ļ		7.9

EVAPORATION DUCT DISTACRAM IN DESCRIPT ACCURRENCE.

CAMPORALITON DOCT HT	3100	t Pari	IN P	ERCE	31 01	CUKI	CHU	<u> </u>							
PERCENT OCCURRENCE	Y!	EARL	Y	31	AH-MA	ar 🗀	AF	PR-J1	NU	- 11	JL-SE	P	00	CT-DE	EC .
	day	nit	d&n	day	nıt	dŁn	day	nit	d&n	day	nit	d&n	day	กit	d&n
0 to 10 Feet	3	2	2	2	1	2	2	1	. 5	3	1	2	4	3	3
10 to 20 Feet	2	3	2	1	3	2	2	3	3	2	3	3	2	4	3
20 to 30_Feet	4	7_	5	4	7	5	4_	6	_ 5	4	. 8	_6	4	. 8	6
30 to 40 Feet	5	12	9	5	11	8	5	10	8	5	14	18	6	13	9
40 to 50 Feet	9	18	14	8	18	13	10	17	13	10	18	14	8	19	14
59 to 60 Feet	10	20	15	18	28	15	11	20	15	11	20	15	9	19	14
60 to 70 Feet	10	14	12	18	15	12	11	16	13	10	13	12	9	12	11
70 to 80 Feet	9	9	9	9	9	9	10	10	19	19	10	18	8	9	8
80 to 90 Feet	6	4	5	5	5	5	7	4	5	6	4	5	5	4	4
98 to 108 Feet	4	2	3	4	2	3	5	3	4	5	2	4	4	2	3
above 100 Feet	38	8	23	42	10	26	34	8	21	33	7	28	42	9	25
Hean height Feet	101	61	81	107	63	25	96	62	79	93	59	76	186	59	82

PARAMETER	YEARL	Y	11	AH-MI	AR .	AF	R-JI	JH .	Jt	JL-S	ΕP	Õ	CT-DI	EC
	day nit	d&n	day	กาเ	din	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts		1	i –		1			0			8			2
% occur 2+ EL dcts		1	l		9	İ		1			1	i .		8
AVG station H	i	377	İ		380	1		384			368	l		377
AVG station -N/Kft		18	l		18			19			17			18
AVG sfc uind Kts	11 18	11	_10	9.4	10	11	10	11	12	11	12	11	11	_11

Specified location: 12 43 S 60 07 R (*) INDICATES INSUFFICIENT DATA

Radiosonde source: 83208 12 43 S 60 07 W Radiosonde station height: -325 Feet

Surface obs.source: MS343 15 00 S 75 00 M

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	Y	EARL'	7	J	RH-M	RR	Al	PR-J	UH	31	JL-SI	EP	0	CT-D	EC
	day	nit	d£n	day	nit	din	day	nit	dŁn	day	nit	dŁņ	day	nit	den
100 MHz	2	- 8	1	2	8	1	1	8	Ø	2	9	1	*	+	*
1 GHz	27	11	19	29	14	22	28	14	21	25	5	15		*	¥
3 GHz	32	14	23	34	17	26	32	17	_24	29	7	18			4
€ GHz	49	32	41	51	37	44	50	35	42	47	24	35	*	*	*
18 GHz	70	63	67	67	61	64	73	64	69	71	64	67	*	*	•
20 GHz	88	77	78	74	71	73	82	78	88	84	81	82		*	•

SURFACE DASED DUCT SUMMARY:

	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,													
PARAMETER	YE	ARL'	7	J	RH-MI	AR	RI	R-JI	JN	5	JL-SI	P	0	CT-D!	EC
	day	nit	dtn	day	nit	d&n	day	nit	d£n	day	nit	din	day	nit	den
Percent occurrence	7	0	3	5	9	3	8	8	4	13	- 0	7	0	. 8	8
AVG thickness Kft	{		*	•			ſ			1			1		*
AVG trap freq GHz	ı		.58			.11	•		1.1	i		.54	İ		ŧ
AVG lyr grd -N/Kft			196			161	Ī		332	L		94	Ĺ		*

ELEVATED DUCT CHMMADY

FEEANIER ROC! SOUME	KT:													
PARAMETER	YEARL	Υ	J	AN-NA	IR	A	PR-JI	JH	31	JL-SI	EP	0	CT-D	EC
	day nit	dkn	day	nit	din	day	nit	din	day	nit	din	day	nit	dån
Percent occurrence	12 8	6	13	9	7	21	- 0	11	13	0	7	0	. 6	9
AVG top ht Kft			[*	ĺ		*	l		#	Į		*
AVG thickness Kft		.38	i		.28	<u>. </u>		.48			.37			*
AVG trap freq GHz		1.3			2.7			.26			.79			*
RVG lyr grd -N/Kft		63	i		64	i		68			58	•		*
AVG lyr base Kft		*	<u> </u>		#	L		*						*

EUROPORTION THAT LICENCEM IN DEDECHT OCCUPRENCE.

EYNPU				31061														
PERCI	ENT	000	URRENCE	Į YE	ERRLY	r] J	RH-MI	rr ,	A A	PR-JI	UH) Ji	UL-SI	P	00	CT-DE	EC
				day	nit	d&n	day	nit	din	day	nit	din	day	nit	d&n	day	nit	d&n
8	to	18	Feet	15	14	14	21	20	21	12	14	13	10	8	9	15	15	15
10	to	20	Feet	8	11	9	7	9	8	8	9	9	9	12	11	8	13	10
20	to	38	Feet	11	14	12	8	10	9	9	14	12	15	17	16	11	15	13
38	to	40	Feet	12	15	13	8	11	10	13	13	13	15	21	18	11	14	12
48	to	58	Feet	10	15	13	8	13	10	11	17	14	12	18	15	10	12	11
50	to	68	Feet	8	9	9	9	10	9	16	10	10	8	9	. 8	_ 5	9	7
60	to	78	Feet	5	5	5	5	6	6	5	5	5	7	6	6	3	4	4
70	to	89	Feet	4	3	3	4	4	4	3	3	3	4	2	3	3	2	3
88	to	90	Feet	_ 2	1_	2	3	2	2	_ 2	2	_ 2	_ 2	1	1	1_	1_	_ 1
98	to	180	Feet	2	1	1	5	1	2	1	1	1	2	1	1	1	1	1
abo	ve	108	Feet	25	12	18	26	14	26	25	14	19	18	5	11	30	13	22
Mean	n h	<u>e i ghi</u>	t Feet	69	49	59	78	52	_61	71	_ 51_	61	61	42	52	76	58	63

PARAMETER	YE	ARL'	7	J	AH-M	AR .	AF	R-J	¥	31	JL-SI	P	Ö	T-DE	C
	day	nit	din	day	nit	din	day	nit	d&n	day	nit	din	day	nit	din
% occur EL&SB dcts			1			2			2			2			0
% occur 2+ EL dcts			1			2	l		2	İ		8	l		0
AVG station N	ĺ		351			360			348			338	l		358
AVG station -N/Kft			18	l		18			16			16	ł		21
AVG sfc wind Kts	11	11	11	10	9.5	18	11	11	11	13	13	13	10	10	10

Specified location: 12 00 S 77 07 H (*) INDICATES INSUFFICIENT DATA

Radiosonde source: 84628 12 00 S 77 07 H Radiosonde station height: 36 Feet

Surface obs source: MS343 15 00 S 75 00 H

DEDCENT OCCUPRENCE OF ENGAGES CUREOCE_TO_CUREOCE DATABO/ESM/COM DANCES

PERCENT OCCURRENCE	OF E	NHAN	CED :	SURF	HCE-	<u>10-SI</u>	URFA	CE_RI	HDRK	<u> ZESM</u>	CON	KHN	<u>. E.S.</u>		
FREQUENCY	Y	EARL'	Υ	J	AN-M	AR	AI	PR-J	JH	71	JL-SI	EP	0	CT-D	EC
	day	nıt	den	day	nit	din	day	nit	din	day	nit	din	day	nit	dkn
100 MHz	9	0		9	1	0	Ø	- 8	0	0	9	6		*	*
1 GHz	23	12	17	26	16	21	25	14	20	18	6	12		*	#
3 GHz	26	15	_21	38	20	25	28	18	23	21	8	15	*	-	
6 GHz	45	33	39	49	48	44	46	36	41	40	25	32	*	*	*
10 GHz	67	64	66	65	63	64	71	65	68	67	64	65) ÷	*	*
20 GHz	78	77	_78	73	73	73	80	78	79	81	81	81	*	+	

SUPPORT BASED DUCT SUMMARY.

PARAMETER	YI	ARL	Y	3	AN-M	AR	RF	R-JI	JH	J	JL-SI	EP	0	CT-DI	EC
<u></u>	day	nit	d&n	day	การ	din	day	nit	din	day	ni t	din	day	กเน	d&n
Percent occurrence	9	3	1	Ø	6	3	Ø	3	2	0	1	1	9	Θ	0
AVG thickness Kft			.29	ĺ		.28	ĺ		.26	l		.33	ĺ		*
AYG trap freq GHz			1.?	i		1.4	ļ		3.5			.24	l		*
AVG lyr grd -N/Kft	<u> </u>		231	<u> </u>		189	L		271	Ĺ		233	<u> </u>		

CONSIL DOSOCORRES CONOCOSAS ENCOCOSOS SELECCIONOS EN ACCONOCOSES EN ACCONOCIONADO CONOCOS EN ACCONOCOS EN ACCONOCOS EN ACCONOCIONADO CONOCOS EN ACCONOCIONADO CONOCOS EN ACCONOCIONADO CONOCOS EN ACCONOCIONADO CO

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ELEVATED DUCT SUMMARY:

FARAMETER	Y	EPRL'	Y	3:	คห-ห	AR	R!	PR-J	אט	JI	JL-S	EP	CI	CT-DI	EC
	day	nit	din	day	nit	din	day	nit	din	day	nıt	dan	day	nit	d&n
Percent occurrence	0	66	33	9	62	31	9	63	32	0	71	36	Θ	66	33
AVG top ht Kft	ĺ		5.4	l		6.7	l		5.9			4.8	ļ		5.1
AVG thickness Kft			.58]		.53	1		.49			.77	i	_	.52
AVG trap freq GHz			.26			.25	i		,33			.15			.31
AVG lyr grd -N/Kft			62	l		61	1		58			68	l		61
AVG lyr base Kft	L		5.6	I _		6.3	L		5.5	l		3.5	L		4.7

EVAPORATION DUCT HISTOGRAM IN PERCENT GCCURRENCE:

PERCENT	OCCI	JRRENCE	Ϋ́	EARLY	7	J	H-M	iR.	A	R-J	אני	- 31	UL-SI	P	00	T-DE	C
			day	nit	d&n	day	nit	dån	day	nıt	d&n	day	nit	d£n	day	nıt	din
8 10	10	Feet	15	14	14	21	29	21	12	14	13	10	8	9	15	15	15
10 to	29	Feet	8	11	9	7	9	8	8	9	9	9	12	11	8	13	10
20 10	38	Feet	11	14	12	_8	16	9	9	14	12	15	17	16	11	15	_13
30 to	49	Feet	12	15	13	8	11	10	13	13	13	15	21	18	11	14	12
49 to	58	Feet	10	15	13	8	13	16	11	17	14	12	18	15	10	12	11
58 to	60	Feet	8	9	9	9	10	9	10	10	10	8	9	_8	5	9	7
60 to	70	Feet	5	5	5	5	6	6	5	5	5	7	6	6	3	4	4
78 to	80	Feet	4	3	3	4	4	4	3	3	3	4	2	3	3	2	3
88 to	90	Feet	2	1	_ 2	_3	2	2	2	2	2	2	1_	1	1	1	1
98 to	100	Feet	2	1	1	2	1	2	1	1	1	2	1	1	1	1	1
above	100	Feet	25	12	18	26	14	29	25	14	19	18	5	11	30	13	22
Hean he	e i gh	Feet	69	49	59	70	52	61	71	51	61	61	_42	52	76	50	_63

PARAMETER	YER	RLY	JA	I-MAR	APR.	-308	JUL-SEP	OCT-DEC
	day n	nit dan	day r	nit dên	day n	it din	day nit da	n day nit dan
% occur EL&SB dcts		1		4		2		θ
% occur 2+ EL dcts		21		19		25	1	4 27
AVG station H		349	ĺ	361	Ì	349	34	0 345
AVG station -H/Kft		15		16	ļ	13	1	7 16
AVG sfc wind Kts	11	11 11	18 9	.5 10	11	11 11	13 13 1	3 10 10 18

Specified location: 12 86 S 77 88 W (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 84631 12 86 S 77 88 H

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Radiosonde station height: 446 Feet Surface obs source: MS343 15 00 S 75 00 W

PERCENT OCCUPRENCE OF ENHANCED SUPERCE-TO-SUPERCE PARAPZESMZON PANCES:

FERCENT OCCURREN	CE OF E	mnnn	CCD.	JUKE	HUE-	10-3	UKFN	CE K	nunk.	<u> 6311</u>	COR	Kniii	GE J.		
FREQUENCY	Y	EARL	Y	J	AN-MI	AR	A.	PR-J	UN	1	UL-SI	EP	0	CT-DI	EC
<u> </u>	day	nit	din	day	nit	din	day	_nit	din	day	nit	din	jday	nit	d&n
100 MHz	- 8	2	1	0	2	i		•	*		*	*	*	+	*
1 GHz	26	28	23	26	28	23	(+		*	(+	*	•	į *	*	*
3 GHz	36	24	27	30	24	27		#			*	#		*	*
6 GHz	49	42	45	49	42	45	-		+		*		+	*	+
10 GHz	65	64	64	65	64	64	*	*	+	*	4			+	+
20 GHz	73	74	73	73	74	73		*	*	+	#			-	*

CHECOLE BOCCH BILLT CHMMODY.

SOKINCE BUSED DOCK	301111111	<u> </u>													
PARAMETER	YE	ARLY	r	J	AN-M	R	A	PR-JI	JH	5	JL-Si	P	O	CT-DI	EC
	day	nit	din	day	nit	dŧn	day	nit	d&n	day	nit	đ &n	day	nit	d&n
Percent occurrence	9	2	1	9	- 8	- 4	0	. 8	8	- 6		0	0	6	e
AVG thickness Kft			. 68	1		. 68	l		*						4
RVG trap freq GHz	[.28	(.20	[*	Ī		•			*
AVG lyr grd -N/Kft	 _		96	Ī		96	İ					#	I		

ELEVATED DUCT SURMARY:

PARAMETER	Ϋ́I	ERRL'	Υ	J	AN-M	RR _	RI	PR-JI	UN	Jŧ	JL-SI	EP	01	CT-DI	EC
	day	nit	_dŁn	day	nit	dkn	day	ni:	dkn	day	nit	din	day	nit	dan
Percent occurrence	8	28	29	8	54	27	0	57	29	9	62	31	0	59	38
AYG top ht Kft	ŀ		4.8	1		8.3			3.8	1		3.0	•		4.1
AVG thickness Kft			.59	[.45	ĺ		.34	i		1.0			.54
RVG trap freq GHz			.44			.52			.86			.87			.30
AVG lyr grd -N/Kft			61	i .		60	1		51	ł		72	{		68
AVG lyr base Kft	Ĺ		4.1	_		7.9	i	_	3.5	i		2.3	Í_		3.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCUR	RENCE	Y	EARL'	7	J	AN-MA	1K	AI	PR-JI	UH	Ji	JL-SI	P	0	CT-DE	<u>.</u> C
			day	nit	dån	day	nit	din	day	nit	din	day	nit	den	day	nit	dan
0 10	10 F	eet	15	14	14	21	20	21	12	14	13	19	- 8	. 9	15	15	15
18 to	20 F	ect	8	11	9	7	9	8	8	9	9	9	12	11	8	13	10
28 to	30 F	cet	11	_ 14	12	_ 8	10	9	9	14	12	15	17	16	_11	15	_13
30 to	49 F	eet	12	15	13	8	11	10	13	13	13	15	21	18	11	14	12
48 to	50 F	eet	18	15	13	8	13	10	11	17	14	12	18	15	10	12	11
58 to	60 F	eet	8	9	9	9	10	9	10	18	10	_8	9	- 8	5	9	7
60 to	70 F	eet	5	5	5	5	- 6	- 6	5	5	5	7	6	6	3	4	4
78 to	80 F	eet	4	3	3	4	4	4	3	3	3	4	2	3	3	2	3
01 03	90 F	eet	2	1	2	_3	_ 2	2	2	2	2	2	1_	1	_ 1	_ 1	1
90 to	100 F	eet	2	1	1	2	1	2	T	1	1	2	1	1	1	1	1
above	108 F	eet	25	12	18	26	14	26	25	14	19	18	5	11	36	13	22
Hean he	ight	Feet	69	49	59	70	52	61	71	51	61	61	42	52	75	59	63

PARAMETER	YEARLY	JAN-MAR	APR-JUH	JUL-SEP	OCT-DEC
[day nit dan	day nit dan	day nit din	day nit dan	day nit dan
% occur EL&SB dcts	2	3	4	0	6
% occur 2+ EL dcts	18	17	5	0	20
RVG station N	345	354	342	337	345
AVG station -N/Kft	17	15	16	21	18
AVG sfc wind Kts	11 11 11	10 9.5 10	11 11 11	13 13 13	10 10 18

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

18 04 S 148 57 H (*) INDICATES INSUFFICIENT DATA Specified location: 18 04 S 140 57 H

Radioscnde source : 91944 7 Feet Radiosonde station height:

Surface obs source: MS15 5 90 N 145 88 H

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/FSM/COM RANGES:

LENCENT OCCUPATION	<u> </u>			JUKI		<u>, , , , , , , , , , , , , , , , , , , </u>	3 K 1 111		10111.			1,1111	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		
FREQUENCY	Y	EARL'	Y	J	AH-MI	R.	AI	PR-JI	JN	Jŧ	JL-SI	EP	01	CT-DI	EC
	day	nit	dŁn	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz] 2	0	1	3	8	2	2	8	1	1	- 9	1	1	8	9
1 GHz	38	5	18	31	5	18	28	4	16	35	7	21	27	6	16
3 GHz	43	11	27	45	9	27	38	11	25	45	_14	29	42	11	27
6 GHz	74	55	65	76	55	66	71	53	62	75	57	66	75	56	66
10 GHz	92	88	98	92	88	90	98	98	90	93	86	89	94	88	91
20 GHz	97	96	96	97	96	97	97	97	97	97	95	96	97	96	96

PARAMETER	Y	EARL	Y	3	AN-M	HR	A	PR-J	N H	31	JL-SI	P	9	T-DE	C
	day	nıt	d&n	day	nst	d&n	day	nit	dŧn	day	nit	dån	day	nit	den
Percent occurrence	13	0	6	24	- 0	12	12	8	- 6	7	0	4	8	9	4
AVG thickness Kft			.37	j		.43			.35			.39			.32
AVG trap freq GHz			.82	ļ		.79	ļ		.73			.62	i		1.2
AVG lyr and -N/Kft	i		130	1		80			137			138			165

PARAMETER	Y	EARL	Y	Ji	AH-HI	AR	A!	R-JI	ИU		JL-SE	P	- 60	CT-DE	EC
	day	nit	d₽n	day	nit	d&n	day	nit	d&n	day	fit t	den	day	nit	dŁn
Percent occurrence	24	8	12	14	9	7	39	- 6	15	33	8	17	17	0	9
AVG top ht Kft	l		7.9			9.0	į .		7.1	1		7.4	l		8.2
AVG thickness Kft			.46			. 30	1		.47			. 55	1.		.55
AVG trap freq GHz			.43	T		.63			.43			.35			.33
AVG lyr grd -N/Kft			61	1		62			69			60	i		68
AVG lyr base Kft	l		7.6			8.8			6.8	ì.		7.0	1		7.8

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EVAPORATION DUCT HISTOGRAM IN PERCENT ACCURRENCE:

PERCE	THE	OCC	URRENCE	YE	ARLY	1	31	H-HA	R.	A!	R-Ji	JH	Jt	JL-SE	P	CC	T-DE	:C
				day	nit	d&n	day	nit	d&n	day	nit	dan	day	nit	dkn	day	nit	<u>dŧ</u> n
6	10	10	Feet	2	1	2	<u> </u>	1	2	2	1	1	2	1	1	2	2	2
10	to	20	Feet	2	3	2	2	2	2	3	2	2	2	4	3	1	2	2
20	to	30	Fect	5	8	6	6	8	7	7	6	7	4	9	7	_ 3	7	5
30	to	48	Feet	8	12	19	9	13	11	8	16	12	8	11	-5	8	11	9
40	to	58	Feet	12	28	16	11	28	16	13	22	17	11	18	15	12	21	17
50	t o	60	Feet	14	20	17	15	21	_ 18	13	19	16	13	_ 19	15	13	21	17
60	to	70	Feet	12	15	14	10	16	13	13	15	14	11	15	13	14	16	15
70	to	80	Feet	9	9	9	11	19	10	9	9	9	8	10	9	8	9	9
88	to	90	Feet	7	. 4	6	8	3	6	6	5	6	6	5	5	8	4	6
98	10	100	Feet	7	2	3	5	1	3	3	- 5	3	4	2	3	ε	1	4
abo	ove	100	Feet	25	5	15	20	5	12	23	4	13	32	7	19	25	6	15
Mear	n h	e i ah	i Feet	84	57	70	77	55	66	86	55	68	93	59	76	86	57	71

Y	EARL	Y .	Jf	H-HF	AR	AF.	R-JI	JK	31	JL-SI	EP	- 00	CT-DE	č
day	nıt	d&n	day	การ	d&n	day	กาเ	din	day	การ	d&n	day	กาเ	dan
		1			1			<u> </u>			1			1
		3	ĺ		2			5			2	(2
		378	ŀ		386			388			369	ĺ		376
		19	1		26			18	l		17			18
15	14	14	17	16	16	14	14	14	12	_ 11	12	15	14	14
		day nit	1 3 378	day nit d&n day 1 3 378	day nit dan day nit 1 3 378	day nit dan day nit dan 1 1 3 2 378 386	day nit d&n day nit d&n day 1 1 1 3 2 378 386	day nit dtn day nit dtn day nit 1 1 3 2 378 386	day nit dan day nit dan day nit dan 1 1 1 1 1 1 3 2 5 5 386 388 <	day nit dan day nit dan day nit dan day 1 1 1 1 3 2 5 378 386 380	day nit dan day nit dan day nit dan day nit 1 1 1 1 1 3 2 5 5 386 380	day nit dan day nit dan day nit dan day nit dan 1 2 5 2 5 2 3 2 3 3 3 69 3 3 69 3 3 6 3 8 3 6 9 3 6 3 8 3 6 9 8 3 6 9 8 3 6 9 8 3 6 9 8 3 6 9 8 3 6 9 8 3 6 9 8 3 6 9 8 3 6 9 8 3 6 9 8 3 6 9 8 3 6 9 8 3 6 9 8 3 6 9 8 <td< td=""><td>day nit dtn day nit dtn day nit dtn day nit dtn day 1 1 1 1 1 3 2 5 2 378 386 380 369</td><td>day nit dan day nit day nit</td></td<>	day nit dtn day nit dtn day nit dtn day nit dtn day 1 1 1 1 1 3 2 5 2 378 386 380 369	day nit dan day nit day nit

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 17 33 S 149 37 H (*) INDICATES INSUFFICIENT DATA

Radiosonde station height:

Radiosonde source : 91938 17 33 S 149 37 H

7 Feet

Surface obs source: MSIS 5 00 N 145 00 H

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/EST/COM RANGES:

FREQUENCY	Y	EARL'	Y	31	RN-MI	RR -	A	PR-JI	Jin 🗔	IL	JL-SE	ΕP	00	T-DI	EC
<u> </u>	day	nit	d&n	day	nit	dkn	day	nit	dan	day	nit	d&n	day	nit	d&n
188 MHz	1	0	1	2	9	1	2	0	1	1	- 8	- 6	2	8	1
1 GHz	29	5	17	26	5	15	28	4	16	34	7	20	29	6	17
3 GHz	41	_ 11	26	39	9	24	38	11	25	44	14	29	44	11	27
6 GHz	73	55	64	73	55	64	71	53	62	74	57	66	76	56	66
10 GHz	92	88	98	91	88	98	90	98	90	92	88	89	94	88	91
20 GHz	97	96	96	96	96	96	96	97	97	97	95	96	97	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YE	ARLY	-	J	AN-HI	R	RI	R-Ji	JN	Ji	JL-SI	Р	0	CT-DI	EC
[day	lay nit dan da			nit	den	day	nit	d&n	day	nit	d&n	day	nit	dŁn
Percent occurrence	9	-0	- 5	12	- 0	6	11	- 0	6	5	8	3	<u>8</u>	0	4
AVG thickness Kft	İ		.38			. 33	1		.34			.33	1		.51
AVG trap freq GHz	l		.64			.68	l		.56			1.0	l		.32
AVG lyr grd -N/Kft			218			170			304			285	Ĺ		115

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	7	3	H-HE	RR	A	R-J	JN	31	JL-SI	EΡ	00	T-DI	EC
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	din	day	nit	dan
Percent occurrence	28	0	10	13	0	7	22	8	11	29	9	15	16	.8	8
AVG top ht Yft	l		5.8	ļ		3.5			6.7	l		6.6	1		6.3
AVG thickness Kft			.56	l		.60	<u> </u>		.52	i		.57	[.53
AVG trap freq GHz			.31			.28			.37			.25			.34
AVG lyr grd -N/Yft	ĺ		58	ĺ		59	i		58	[68	I		58
AVG ivr base Kft	<u> </u>		5.3			3.0			6.3	1		6.2	l		5.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCE	NT	000	URREHCE	YE	ARL	Υ	J	AN-MI	AR	Ĥ	PR-JI	JN	31	JL-SI	P	00	T-DE	C
				day	nit	d&n	day	nıt	<u>d&n</u>	day	211	din	day	nit	d&n	day	nit	d&n
0	to	13	Feet	2	1	2	3	1	2	2	1	1	2	1	1	2	2	2
10	to	28	Feet	2	3	2	2	2	2	3	2	2	2	4	3	1	2	2
20	to	38	Feet	5	8	6	_6	8	7	7	- 6	7	4	9	7	3_	7	_ 5
30	10	40	Feet	8	12	10	9	13	11	8	15	12	8	11	9	8	11	9
49	to	50	Feet	12	28	16	11	20	16	13	22	17	11	18	15	12	21	17
59	to	69	Feet	14	28	17	15	21	18	13	19	16	13	18	15	13	21	17
69	to	70	Feet	12	15	14	10	16	13	13	15	14	11	15	13	14	16	15
70	to	89	Feet	9	9	9	11	10	10	9	9	9	8	10	9	8	9	9
89	to	98	Feet	7	4	_6	8	3	_6	_6	_5	6	_6	5	5	8	4	_ 6
96	to	100	Feet	4	2	3	5	1	3	3	2	3	4	2	3	6	1	4
abo	ve	100	Feet	25	5	15	29	5	12	23	4	13	32	7	19	25	6	15
Hear	ı he	e i gh	t Feet	84	57	78	77	53	66	88	55	68	93	59	76	88	57	71

PARAMETER	YERRLY	JAH-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit d&n	day nit din	day nit dan	day nit dan
% occur EL&SB dcts	2	2	3	1	1
% occur 2+ EL dcts	1	1	1	3	1
AVG station N	372	378	373	364	373
RVG station -N/Kft	16	16	16	15	16
AVG sfc wind Kts	15 14 14	17 16 16	14 14 14	12 11 12	15 14 14

Specified location: 14 19 S 170 43 H (*) INDICATES INSUFFICIENT DATA Radiosonde source: 91765 14 19 S 170 43 H

Radiosonde station height: 16 Feet Surface obs source: MS317 5 00 S 175 00 W

PERCENT ACCURATION OF PHILOMETA CHRESCE TA CHRESCE DOTOR COM PONCEC

PERCENT OCCURRENCE	UF E	NHHNI	LED Y	SUKF	HUE-	10-5	UKFHI	LE M	HUHK.	/ <u>ESR</u>	<u>/ CUN</u>	KHK	<u> </u>		
FREQUENCY	Y	EARL'	<i>;</i>	J	AN-M	RR	BI	PR-JI	JH	10	UL-SI	EP _	0	CT-B!	EC
	day	nit	d&n	day	ni t	důn	day	nit	d&n	day	nit	d&n	day	nit	dkn
168 HHz	8	1	_5	9	1	5	- 8	1	4	8	1	4	8	1	5
1 GHz	55	16	35	58	17	37	49	11	30	56	26	38	56	15	36
3 GHz	66	24	45	69	26	47	60	18	39	68	28	48	68	25	_47
6 GHz	85	63	74	86	64	75	79	56	68	87	67	77	86	65	75
10 GHz	94	87	91	95	89	92	93	85	89	95	88	92	94	88	91
20 GHz	97	95	96	97	95	96	96	94	95	98	95	96	97	95	96_

SUPERCE ROSED DUCT SUMMARY:

PARAMETER	Y	ARL	Y	J	RN-M	AR	- AI	PR-JI	JH.	J	JL-SI	Р	01	T-D	C
	day	nit	d&n	day	nit	d&n	day	nıt	d&n	day	nit	<u>dŁ</u> n	day	nit	d&n
Percent occurrence	45	5	25	53	6	30	36	4	20	41	4	23	49	7	28
AVG thickness Kft	l		.35	1		.31	l		.33	ŀ		.40	ļ		.34
RYG trap freq GHz	i		.43	l		.48	l		.32	i		.40	1		.51
AVG lyr grd -N/Kft	<u> </u>		93	L		85			104			99	L		85

ij

25

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	, —	J	AN-M	BR	AI	PR-JI	JN	31	JL-SI	P	01	CT-DI	EC
	day	nit	den	day	nit	d&n	day	nit	d&n	day	การ	d&n	day	nit	d&n
Percent occurrence	23	37	30	15	27	21	23	38	31	34	50	42	19	31	25
AVG top ht Kft	1		6.9	l		7.2			6.6	l		6.2			7.5
AVG thickness Kft			. 45	ĺ		.41		_	.44	ĺ		.53			. 44
AVG trap freq GHz			.34			.39			.37			.24			.38
AVG lyr grd -N/Kft	i		60	l		57	1		61	l		61			61
AVG lyr base Kft	[6.5	(€.8	1		6.3	ĺ		5.8	1		7.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCURRENCE	Y	ARL	·	Ji	AH-MA	ìR	Ä	K-J	H		JL-SE	P	00	T-BE	C
		day	ntt	d&n	day	nıt	d&n	day	nıı	d&n	day	nit	d&n	day	n <u>it</u>	d&n
0 to	10 Feet	3	2	2	3	2	2	2	1	2	2	2	2	3	1	2
10 to	20 Feet	3	4	3	3	4	3	4	5	4	2	3	3	2	4	3
29 10	30 Feet	5	8	6	4	- 6	5	6	10	8	4	7	5	5	8	7
30 to	48 Feet	7	10	8	7	9	8	8	12	10	ક	9	7	7	11	9
48 to	50 Feet	10	15	13	11	17	14	13	17	15	8	14	11	9	14	11
59 20	60 Feet	12	18	15	13	17	15	12	_18	_15	10	. 18	14	11	18	15
60 10	78 Feet	9	13	11	9	13	11	9	13	11	9	12	11	8	13	11
70 to	80 Feet	8	10	9	8	16	9	7	8	8	10	10	10	8	11	18
80 to	98 Feet	_6	5	6	6	6	6	6	5	_ 5	7	5	6	- 6	. 6_	6
98 to	160 Feet	1 4	3	3	3	3	3	4	2	3	5	3	4	5	3	4
above	100 Feet	34	12	23	34	13	24	39	8	19	38	17	28	35	11	23
Hean he	eight Feet	94	66	89	94	68	81	88	69	74	99	72	86	95	64	79

PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit din	day nit dan	day nit d&n	day nit_d&n
% occur EL&SB dcts	4	2	4	7	4
% occur 2+ EL dcts	6	3	3	9	7
AVG station N	382	384	383	379	382
AVG station -N/Kft	18	19	18	18	19
AVG sfc wind Kts	10 9.8 9.4	11 10 10	8.5 8.3 8.4	10 9.4 19	10 8.8 9.2

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 17 45 S 177 27 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source: 91680 17 45 S 177 27 E Radiosonde station height: 62 Feet .

Radiosonde station height: 62 Feet . Surface obs source: MS354 15 00 S 175 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	Y	ERRL'	Y	J	AN-HI	RR	A	PR-JI	JN	J	JL-SI	EP	00	T-DI	EC
	day	nit	dan	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	- 0	- 0	1	- 8	1	1	- 0	Ø	1	0	0	1	0	0
1 GHz	32	9	21	30	9	20	37	11	24	32	6	19	29	9	19
3_GHz	45	18	32	39	16	28	52	_21	_ 37	50	18	34	40	_18	29
6 GHz	76	65	71	72	61	67	80	76	75	80	68	74	73	60	67
10 GHz	92	98	91	90	87	88	92	93	92	92	92	92	92	87	89
20 GHz	95	96	95	95	92	93	96	97	96	95	97	96	95	96	96

CUPEACE RACES BUCT CUMMARY.

SURFREE BRISED DOCT S	JUHINK I .				
PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit d&n	day nit dan	day nit dan	day nit dan	day nit din
Percent occurrence	7 0 4	10 0 5	5 0 3	5 0 3	8 0 4
AYG thickness Kft	.32	.23	.41	.40	.23
AVG trap freq GHz	1.1	1.5	1.0	.39	1.4
AVG lyr grd -N/Kft	137	155	138	132	121

ELEVATED DUCT SUMMARY:

PARAMETER	YI	ERRL'	7	JI	AN-M	AR .	Al	PR-JI	JH	JI	JL-SI	EP .	Ö	T-DI	EC
	day	nit	d&n	day	nit	d&n	day	การ	d&n	day	nit	dan	day	nit	dŧn
Percent occurrence	19	8	9	6	0	-3	23	9	12	28	0	14	17	9	9
AVG top ht Kft	İ		5.7	l		6.7	1		6.9	l		6.3)		6.8
AVG thickness Kft	i		. 44	L		.49	l		.38	_		.48	_		.41
AVG trap freq GHz			.46			.47			.63			.31			.45
AVG lyr grd -N/Kft	i .		57			59	ı		54	i		59	l .		57
AVG lyr base Kft	l		6.3	ł		6.4	l		6.6	ļ		6.0	i		6.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	CCC	URRENCE	Υl	ARL	Y	J	AN-M	R.	Al	PR-J	UN	J	UL-SI	ΕP	01	CT-DE	EC .
			day	nit	d&n	day	nıt	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
8 to	18	Feet	3	1	2	2	2	2	3	1	- 2	3	1	- 2	2	2	2
10 to	20	Feet	2	3	3	3	6	5	2	1	1	1	1	1	3	3	3
20 to	30	Feet	4	6	5	5	5	5	_ 4	5	4	ļ_3	_ 5	4	_ 4	_ 9	6
30 to	40	Feet	6	-9	7	6	8	7	5	9	7	5	7	- 6	8	9	9
48 to	50	Feet	10	16	13	13	17	15	8	13	11	8	17	13	12	17	14
50 to	68	Feet	12	18	15	15	19	17	9	18	13	11	17	14	13	19	16
60 to	70	Feet	11	17	14	12	18	15	19	18	14	10	28	15	12	11	:2
70 to	88	Feet	10	11	10	8	8	8	10	12	11	11	13	12	10	11	18
_ 80 to	98	Feet	8	6	_ 7	_ 5	4	_5	_ 8	6	7	11	8	10	6	7	6
90 to	100	Feet	5	3	4	3	4	3	7	4	6	6	3	5	5	2	3
above	100	Feet	36	9	19	27	9	18	35	11	23	30	6	18	27	9	18
Mean he	e i gh	t Feet	98	63	76	86	61	73	97	68	82	91	62	76	85	68	72

deliente ileteorocool	00111111111	•												
PARAMETER	YERRL	Ϋ	JA	H-H	₹P.	AF	R-J	UH .	31	JL-SI	P	-00	7-DE	C
	day nit	d&n	day	nit	d&n	day	nit	dŁn	day	nit	d&n	day	nit	dan
% occur EL&SB dcts		1			0			1			1			i
% occur 2+ EL dcts		1	İ		8	i		2			0	i		1
RYG station N		364	1		376			362			356			361
AVG station -N/Kft	ŀ	16	j		18			16	ļ		15	1		15
AVG sfc wind Kts	13 12	13	12	12	12	12_	12	12	14	14	14	13	12	12

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMAPY

Specified location: 17 45 S 168 18 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 91558 17 45 S 168 18 E

Radiosonde station height: 59 Feet Surface obs source: MS355 15 00 S 165 00 E

PEDIENT NICHODENIE OF ENHANCER SUBFAIF-IN-SUBFAIF DARAD/FSH/COM DANSES

LEKTEN! OFFORKENT	E UF E	<u>инни</u>	CED 1	SURFI	HUE-	10~51	<u> JKHHI</u>	LE KI	HUHK	LSH.	/CUM	KHH	6E5:		
FREQUENCY	Y	EARL	Y	JI	<u>คห−หเ</u>	3R	AI	PR-JI	JH	7	ŬL-SI	P	F 91	CT-DI	EC
	day	nit	d&n	day	nit	dŁn	day	nit	d&n	day	nıt	důn	day	nit	d&n
100 MHz	2	0	1	1	- 6	1	1	0		2	. 0	1	3	-6	1
1 GHz	37	8	22	38	9	53	36	8	22	32	7	19	42	7	24
3 GHz	50	17	33	48	16	32	51	18	34	46	_18	32	56	15	36
6 GHz	81	62	71	81	60	78	82	65	73	79	66	72	82	56	69
10 GHz	93	88	91	93	89	91	94	88	91	91	91	91	93	85	89
20 GHz	96	95	95	96	95	96	96	94	95	95	97	96	96	92	94

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SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL	Y	J	AN-M	iR .	AI	R-J	ИN	31	JL -SI	Ρ	00	CT-DI	EC
	day	nit	d&n	day	nıt	d&n	day	nıt	d&n	day	nit	d&n	day	nıt	d&n
Percent occurrence	14	0	7	14	- 0	7	7	- 0	4	12	9	6	24	0	12
AVG thickness Kft			.23	i		. 14	1		.26	i		.26	ı		.26
AVG trap freq GHz	1		1.9	l .		3.8	ĺ		1.7			.91	[1.2
AVG lyr grd -N/Kft			220			353			257		_	135	L		137

ELEVATED DUCT SUMMARY:

EFEANTED DOCT 2000H															
PARAMETER	YI	ARL'	Y	Ji	311-11	R.	AF	R-J	NM.	Jt	JL-SI	Ρ	00	CT-DE	EC
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nıt	d&n	day	nit	d&n
Percent occurrence	52	0	26	42	- 0	21	51	9	26	66	Ð	33	48	0	24
AVG top ht Kft			6.8	1		7.4	ļ		6.4	1		6.3	l		7.3
AVG thickness Kft			.53	L		.46			. 52	<u> </u>		.68	i		.46
AVG trap freq GHz			.34			- 49	1		.32			.18			.39
AVG lyr grd -N/Kft			154	1		64	ĺ		61	l .		66	1		64
AVG lyr base Kft			6.			7.1	<u> </u>		6.0	[5.8	Ĺ		7.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCE	NT.	OCC	URRENCE	YE	ARL	i	J	AH-M	R	AF	R-JU	JH	Jι	JL-SE	P	00	T-DE	EC
				day	nit	den	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nıt	d&n
0	10	10	Feet	3	2	2	3	2	2	3	1	2	3	<u>i</u>	2	3	2	3
10	to	20	Feet	2	4	3	2	3	2	1	4	3	2	3	2	1	5	3
20_	to	30	Feet	3	6	- 5	3	7	_ 5	_2	6	4	3	- 6	5	3	7	5
30	10	40	Feet	5	10	8	6	11	8	4	- 8	6	6	10	8	6	13	9
40	to	50	Feet	8	16	12	8	18	13	8	16	12	8	15	12	8	16	12
50	10	60	Feet	11	19	15	12	20	_ 16	11	19	_15	11	28	15	12	16	14
60	to	70	Feet	11	17	14	13	17	15	11	17	14	12	18	15	10	15	12
78	ŧο	88	Feet	11	10	10	10	7	9	11	12	11	13	10	12	9	16	10
80	10	98	Feet	7	6	6	5	4	5	8	5	7	7	_ 7	. 7	S	€	7
90	to	160	Feet	5	3	4	4	3	3	6	4	5	6	4	5	5	2	4
abo	ove	188	Feet	33	8	20	35	9	22	34	8	21	27	7	17	35	7	21
Hear	1	eigh	ı Feet	94	61	77	97	62	79	96	63	79	86	61	74	96	58	77

PARAMETER	YEAR	LY	J	RN-MA	ìR	AF	R-J1	JH .	31	JL-38	P	ő	T-DI	EC
	day ni	t d&n	day	nit	dan	day	nit	d&n	day	nıt	d&n	day	nit	dan
% occur EL&SB dcts		7	Γ-		7			3			8			18
% occur 2+ EL dcts		11	ì		12	1		12			1	l		9
AVG station N		372	ĺ		389	i		373	•		366			373
AVG station -N/Kft		1€	•		16	ĺ		16			14	ł		16
AYG sfc wind Kis	13 1	3 13	12	12	12	13	13	_13	15	14	15	12	12	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 16 18 S 149 58 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 94299 16 18 S 149 58 E

Radiosonde station height: 26 Feet Surface obs source: MS356 15 00 S 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

CENTRAL OCCUPATION		********		3000			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					1			
FREQUENCY	Y	EARL'	Y	<u> </u>	AN-HI	iR.	A	PR-JI	JN	J	JL-SI	EΡ	o	CT-DI	EC
i	day	nit	dŁn	day	nit	d&n	day	nit	dŁn	day	การ	d&n	day	nit	dan
100 MHz	3	8	1	1	0	1	1	0	1	4	8	2	5	- 8	2
1 GHz	42	8	25	43	9	26	34	8	21	41	8	24	52	ક	38
→ GHz	57	17	37	55	17	36	51	18	35	58	18	38	65	16	40
6 GHz	84	63	74	82	59	71	83	66	74	86	67	76	88	62	75
10 GHz	95	89	92	94	87	91	95	90	92	95	91	93	96	89	92
20 GHz	97	95	96	97	94	95	97	96	97	97	96	97	98	95	96

SUPERCE RASED DUCT SUMSARY:

PARAMETER	Y	EARL'	ľ	J	AN-M	AR	R	PR-JI	אנ	31	JL-SI	P	ō	CT-DI	EC
	day	nit	d&n	day	การ	d&n	day	nit	d&n	day	nit	d&n	day	nıt	d&n
Percent occurrence	18	0	9	12	- 0	6	6	θ	3	24	0	12	30	- 8	15
AVG thickness Kft			.3€	i		. 24	1		.51			.31			.36
AYG trap freq GHz			.78			1.1	ļ		.53	ŀ		.64	ļ		.58
AVG lyr grd -N/Kft			113			115			124			119	<u> </u>		93

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	J	AN-H	AR .	A	PR-JI	אנ	J	JL-SI	EP	00	CT-DE	EC
	day	nit	d&n	day	nit	d&n	day	nit	dên	day	nit	d&n	day	nit	d&n
Percent occurrence	34		28	28	0	10	31	e	16	46	- 6	23	40	19	30
AVG top ht Kft	1		5.9	l		6.3	l		6.4			5.5	İ		5.3
AVG thickness Kft			.59			.40	İ		.49	L		. 59			. 53
AVG trap freq GHz			.31			.44			.34			.23			.24
AVG lyr grd -N/Kft	•		61			58	l		63			62	l		61
AVG lyr base Kft	ı		5.5	l		6.8	ł		6.0			5.1	!		4.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

EANDORNITOR DOCT HT	<u> </u>	Chart 1	115		** 0	COK									
PERCENT OCCURRENCE	YE	NRL	Y	J	AN-MA	ar i	l AF	R-JI	ווע	JI	JL-SE	EP	00	CT-DE	C
	day	nit	dan	day	กit	d&n	day	nıt	dŧn	day	nit	d&n	day	การ	d&n
8 to 10 Feet	2	2	2	2	2	2	2	1	1	2	1	2	2	2	2
10 to 20 Feet	1	3	2	2	4	3	1	2	1	1	2	1	1	3	2
20 to 30 Feet	3	6	5	_3	7	5	3	6	5	3	6	4	2	7	4
30 to 40 Feet	5	10	7	5	11	8	5	9	7	4	10	7	4	11	8
40 to 50 Feet	8	15	12	9	1?	13	8	15	12	7	14	11	7	16	11
50 to 60 Feet	10	19	14	19	18	14	12	17	14	10	19	14	19	20	15
60 to 70 Feet	11	16	14	11	16	13	11	17	14	12	17	14	11	16	13
70 to 80 Feet	10	12	11	i s	9	8	1 :0	14	12	13	13	13	9	10	10
80 to 98 Feet	9	6	7	7	5	6	10	7	_ 9	10	. 7	- 8	7	6	6
90 to 10' feet	6	3	4	4	3	3	7	4	5	8	3	5	5	2	4
above 180 ree.	36	8	22	39	9	24	31	8	28	31	8	19	41	8	24
Hean height Feet	99	62	81	104	62	83	93	63	78	93	_63	79	186	62	84

PARAMETER	Y	ENRL'	Y	J	AN-HI	AR	RF	R-J(JH	Ji	JL-SE	Ρ	Ö	T-DE	EC
1	day	nst	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nıt	dŁn
% occur EL&SB dcts			7			2			3			11			12
% occur 2+ EL dcts			4	i		2	l		3			5			5
AVG station N			359	i		371	i		335			350	l		368
AVG station -N/Kft	1		17	l		18	l		1€			17	!		18
AVG sfc wind Kts	14	13	13	12	11	12	15	14	14	16	15	15	12	11	12

Specified location: 19 15 \$ 146 46 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 94294 19 15 \$ 146 46 E Radiosonde station height: 18 Feet

Surface obs source: MS356 15 00 S 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

	EKCENI	DEFORKENCE	טר בו	<u>HHHN</u>	.EU:	SUKE	HUE-	1 0-51	UKFH	E K	HUHK	LSU.	<u>/CUM</u>	KHK	<u>LES:</u>		
Ţ	FRE	QUENCY	Y	EARL'	7	Ji	AN-M	R	A1	PR-JI	JH	3	UL-SI	EP	0	CT-DI	EC
L			day	nit	d&n	day	nit	d&n	day	nit	dŁn	day	nit	den	day	nit	dån
1	100	MHz	1	8	0	1	9	1	9	8	- 0	a	0	. 9	1	1	1
1	1	GHz	37	9	23	43	9	26	33	8	20	31	8	28	42	12	27
Ł	3	GHz	52	18	35	55	17	36	56	18	34	49	18	33	55	28	37
ī	6	GHz	82	64	73	82	59	70	82	66	74	82	67	75	84	64	74
1	10	GHz	94	89	92	94	87	98	95	98	92	94	91	92	94	89	92
L	20	GHz	97	95	96	97	94	95	97	96	97	96	96	96	97	96	96

SURFACE BASED DUCT SUMMARY: PARAMETER YEARLY JAN-MAR APR-JUN JUL-SEP OCT-DEC day nit den dav nit d&n dav nit dån day nit d&n dav nit d&n Percent occurrence AVG thickness Kft . 35 .28 .28 .48 .46 AVG trap free GHz 1.0 1.5 1.3 .65 .54

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AVG Tyr grd -N/Kft ELEVATED DUCT SUHHARY:

PARAMETER	۲I	EARL	Y	J	H-HE	1R	A	-R-J	JH	Jŧ	JL-SE	P	0	CT-DI	EC
	day	nit	ain	day	nit	din	day	nit	d&n	day	nit	d&n	day	nit	dan
Percert occurrence	26	1	13	17	9	9	25	0	13	29	9	15	31	4	18
AVG top ht Kft			5.9	ĺ		6.8			6.8			5.3			4.6
AVG thickness Kft			. 45			.44			. 48	l		. 48			. 47
AVG trap freq GHz			.38			.38			.31			.45			.38
AVG lyr grd -N/Kft			60	İ		68			59			62			59
AVG lyr base Kft			5.5	1		6.4	i		6.4			5.0			4.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE: PERCENT OCCURRENCE YEARLY JAN-MAR APR-JUN JUL-SEP OCT-DEC day nit dån day not din day nit den day nit din day nit dan 0 to 10 Feet 18 to 29 Feet 26 to 38 Feet 30 to 40 Feet 40 to 50 Feet R 50 to 60 Feet 60 to 78 Feet 70 to 80 Feet 88 to 98 Feet 90 to 100 Feet above 100 Feet Hean height Feet

YE	HRL'	Y	31	A):-N	AR	A	R-JI)H	31	JL-S!	EP	ő	T-DI	EC
Jay	nit	den	day	nıt	ರಕ್ಕ	dau	nit	den	day	nit	din	day	nit	din
_		1		_	3			ī			1			1
l		2	i		3			2			1			3
i		347			363			340			335			359
i		14	i		16			13	i		13	i		14
14	13	13	12	11	12	15	14	14	16	15	15	12	11	12
	Jay	Jay nit	1 2 347	day nit dan day 1 2 347	day nit den day nit 1 2 347	day nit dtn day nit dtn 1 3 2 3 347 363	day nit dan day nit dan day 1 3 2 3 347 363	day nit dtn day nit dtn day nit 1 3 2 3 347 363	Jay nit den day nit den dau nit den 1 3 1 2 3 2 347 363 340	Jay nit dan day nit dan day nit day 1 3 1 2 3 2 347 363 340	day nit dtn day nit dtn day nit day nit dtn day nit 1 3 1 2 3 2 347 363 340	Jay nit den day nit den dav nit den dav nit den 1 3 1 1 2 3 2 1 347 363 340 335	Jay nit den day nit den dav nit den dav nit den dav 1 3 1 1 2 3 2 1 347 363 340 335	Jay nit dtn day nit dtn day nit dtn day nit dtn day nit day nit dtn day nit day nit dtn day nit d

TREPS REV 2.1 HISTORICAL PROPAGRITION CONDITIONS SUMMARY

Specified location: 12 25 S 130 S2 E (4) INDICATES INSUFFICIENT DATA

Radiosonde source : 94120 12 25 S 130 52 E

Radiosonde station height: 95 Feet

Surface obs source: MS322 5 00 S 135 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RAMGES:

		~. ~										· · · · ·				
F	REQUENCY	Y	EARL'	-	J	AH-HI	AR	AI	PR-JI	JN	Ji	JL-SI	Р	00	CT-DI	EC
L		day	nit	d&n	day	nıt	dan	day	nit	d&n	day	nit	d‡n	day	nit	d&n
	88 KHz	2	Ø	1	1	0	1	3	- 0		2	0	1	2	0	1
i	1 GHz	45	13	29	38	11	24	47	15	31	47	13	30	49	15	35
1.	3 GHz	55	22	39	49	21	_ 35	53	24	-31	58	22	40	56	26	38
	6 GHz	81	63	72	77	66	71	83	66	75	85	63	74	80	55	67
1	18 GHz	94	87	90	92	88	98	95	92	94	95	87	91	92	81	86
1	20 GHz	98	95	96	97	96	97	99	96	97	98	96	97	97	91	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL	7	J	AN-MI	12	A	PR-J	JH	Ji	'L~SI	P	00	CT-DI	EC
	day	nıt	d&n	day	nıt	dan	day	nit	d&n	day	nit	dån	day	<u>ni</u> t	dan
Percent occurrence	14	- 0	7	12	9	6	17	- 6	9	14	8	7	13	9	7
AVG thickness Kft			.28	i		.17			.31	ł		.43	İ		.23
AVG trap freq GHz	İ		.83	ł		1.3			.59	i		.52			.88
RVG lyr grd -N/KCt			115			115	L		107	L		133	L		107

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Ÿ	J	AN-MA	ir.	RI	R-J	JH	3	JL-\$	EP	0	CT-DI	EC
	day	nit	dŁn	day	nit	dan	day	nit	d&n	day	nit	den	day	nit	den
Percent occurrence	21	0	11	9	- 0	5	30	0	15	23	0	12	23	8	12
AVG top ht Kft			6.0	j		7.2	İ		6.4	ļ		5.5	1		5.1
AVG thickness Kft	İ	_	.48	l		.34			.37	L		. 35	L		.56
AVG trap freq GHz			.66	ſ		1.2			.50			.65			. 34
AVG lyr grd -N/Kft	l		68			66	l		58	į .		59	l .		57
AVG lyr base Kft	į .		5.7	•		6.9	l		6.1			5.2	1		4.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	Y	EARL	Y	J	คห-หค	RR	Ri	PR-JI	บห	J	UL-Si	EP	01	CT-DS	EC
	day	nit	ರಹಿಗ	day	613	d&n	day	nit	d&n	day	nıt	d an	day	nit	din
0 to 10 Feet	1	1	1	P	1	1	9	8	·	1	- 0	1	1	1	1
10 to 20 Feet	2	5	3	3	4	3	2	3	2	1	4	3	2	7	5
20 to 30 Feet	5	8	6_	6	8	7	4	4	4	3	8	6	6	_10	. 8
30 to 40 Feet	6	10	8	7	8	8	6	11	- 8	4	11	7	6	11	8
48 to 58 Feet	8	14	11	10	13	12	8	15	12	8	14	11	8	15	11
50 to 60 Feet	11	18	15	12	19	16	11	17	14	12	_17	15	10	_18	14
60 to 70 Feet	9	13	1:	18	15	13	10	14	12	9	14	11	9	11	10
78 to 80 Feet	8 إ	16	9	7	11	9	9	11	19	18	9	10	∫ €	7	6
_ 80 to 98 Feet_	5	5	5	_ 7	7	7	6	6	_ 6	6	6	6	4	3	3
98 to 188 Feet	4	3	3	4	3	4	4	4	4	5	3	4	2	2	2
above 108 Feet	41	13	27	34	11	23	41	15	28	42	13	27	46	15	30
dean height Feet	184	67	86	95	66	88	103	78	86	197	66	86	111	67	89

GENERAL HETEOPOLOGY SUMHARY.

PARAMETER	YE	ARLY	r	J	AH-M	RR	AF	R-J	H	J	JL-S!	EP	01	CT-DE	EC
	day	nit	din	day	013	d£n	day	nit	din	day	nit	dtn	day	nit	d&n
% occur EL&SR dcts			3			1			5			3			3
% occur 2. EL dcts			2	ĺ		1			2			2	•		3
AVG station N			364	ļ		380			356			347	1		372
AVG station -N/Kft	ĺ		18	1		20	i		17			17			19
RVG sfc wind Kts	11	10	10	11	18	11	12	11	11	13	_ 11	12	8.1	7.4	7.7

1

2

(+) INDICATES INSUFFICIENT DATA 17 57 S 122 13 E Specified location: Radiosonde source : 94203 17 57 S !22 13 E Radiosonde stat:on height: 39 Feet

Surface obs source: MS360 15 00 S 115 00 E

FREC	UENCY	Y	EARL'	Y	J	AN-MI	R.	Ai	PR-JI	JH	Jl	JL-SI	EΡ	91	CT-DI	EC
		day	nit	d&n	day	ni <u>t</u>	d&n	day	niţ	den	day	nit	d&n	day	nit	dtn
100	MHz	7	Ð	4	4	8	2	8	9	4	9	8	- 5	9	0	4
1	GHz	55	17	36	43	14	28	62	26	44	58	17	37	56	13	34
3	GH=	67	27	47	56	20	38	72	39	55	71	28	58	67	28	43
6	GHz	87	65	76	81	58	78	89	76	82	89	66	78	87	68	73
19	GHz	95	88	91	93	83	88	97	91	94	96	88	92	96	89	92
29	GHz	i 98	94	96	96	91	94	98	96	97	98	95	97	98	96	97

PARAMETER		EARL	7	J	AN-M	RR	AF	R-Ji	JH	Ji	JL-SI	Ρ	00	T-DE	C
į	day	nit	d&n	day	nit	dŁn	day	nit	d&n	day	nit	din	day	nit	dån
Percent occurrence	34	8	17	25	9	13	34	0	17	39	9	20	38	9	19
AVG thickness Kft			.53	i		.46	l		. 45			.48			.73
AVG trap freq GHZ			.38			.62			. 38	ĺ		.30			.30
AVG lyr and -11/Kft			194			122			99			97			99

CICUATED DUCT CHRHADY.

PARAMETER		EARL'			ลห-หเ			R-JI			JL-Sŧ			CT-DI	
	day	nit	d&n	dey	nit	dtn	day	រាវន	dan	day	nit	dan	day	nit	dtn
Percent occurrence	27	9	14	19	0	10	27	- 0	14	25	0	13	38	8	19
AVG top ht Kft	i		4.8	i		3.8	1		5.3	ł		4.4			2.5
RVG thickness Kft	l		.62	Í		.78	L		.57			.44	<u> </u>		.77
AVG trap freg GHz			.33			.19			.4€			.49			.16
AVG lyr grd -N/Kft	l		61	i		69	l		60	1		56	i		61
AVG lyr base Kft	ļ		3.5	l		3.3	}		4.9			4.3			1.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCURRENCE	Y	EARL	·	3	AH-HI	AR	A!	R-J	UN .	J	UL-SI	EP	00	CT – DE	EC
		day	nit	dån	day	nst	d&n	day	nit	<u>dtn</u>	day	nit	d&n	day	nit	dŧn
8 to	10 Feet	2	2	2	3	5	4	[1	1	1	<u>1</u>	1	1	2	2	2
18 to	23 Feet	2	4	3	2	5	3	2	3	2	2	5	3	1	3	2
29 10	30 Fe(t	3	7	5	5	8	6	2	5	3	3	7	5	3	7	5
30 .0	40 Feet	5	9	7	6	11	8	4	5	5	<u> </u>	8	6	6	13	9
49 tc	50 Feet	8	14	11	9	15	12	7	18	9	6	14	16	8	16	12
50 to	60 Feet	10	16	13	11	16	13	8	15	12	9	15	12	11	18	14
60 tc	70 Feet	10	13	11	10	13	11	8	12	10	10	13	12	11	13	12
70 to	80 Feet	18	9	9	18	9	18	10	10	10	j 9	9	9	9	9	9
69 to	98 Feet	7	6	7	8	5	6	6	7	7	9	8	8	7	4	- 6
90 10	100 Feet	5	4	4	5	2	3	5	6	6	6	4	5	_	2	4
above	100 Feet	39	17	28	33	14	23	47	26	37	39	17	28	37	13	25
Kean he	ont Feet	104	72	88	96	65	81	1113	84	99	105	72	88	182	66	84

PARAMETER	YE	ARL	ri	Ji	AK-MI	R R	A:	PR-JI	UN	31	JL-SE	EΡ	00	(T-D	EC
_ 1	day	nit	den	day	nit	din	day	กเน	din	day	กiเ	din	day	nıt	dan
% occur EL&SB dcts			5			4			4			5	i -		6
% occur 2+ EL dcts			3	1		2			3			3	l		5
AVG station N	i		357			377			346			339	l		367
AVG station -N/Kft	l		21			21	Ì		19			19	1		25
AVG sfc wind Kts	12	11	12	14	12	13	11	11	11	12	10	_11	12	11	11

IREPS REY 2.1

HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 15 00 S 115 00 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 94312 20 22 \$ 118 37 E

Radiosonde station height: 20 Feet

Surface obs source: MS360 15 00 S 115 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TU-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	Y	ERRL	Y	J	RH-MI	R	A	R-JI	JH	J	JL-SI	P	00	CT-DE	EC _
l	day	nit	dan	day	nit	d£n	day	nit	dån	day	nit	.d&n	day	nit	d&n
100 MHz	9	9	4	9	Ø	4	?	8	3	6	8	3	13	8	6
1 GHz	57	17	37	54	14	34	61	26	43	52	17	34	62	13	37
3 GHz	69	27	48	67	20	_44	72	_ 39	56	66	28	47	72	28	46
6 GHz	88	65	76	86	58	72	98	76	83	88	66	77	89	68	74
10 GHz	96	88	92	95	83	89	97	91	94	55	88	91	96	89	92
20 GHz	98	94	96	97	91	94	98	96	97	98	95	96	98	96	97

SUPPORE BASED DUCT SURHARY.

JOH! HOL DINGED DOC! 3	30111111K 3 5													
PARAMETER	YEARLY	YEARLY day nit dan			ìR	RI	PR-JU	<u>H</u>	Ji	JL-SI	EP	Ō	CT-DE	EC
	day nit	dŁn	day	nit	dkn	day	nit	dŁn	day	nit	den	day	nit	dŁn
Percent occurrence	39 0	28	43	0	22	38	0	19	29	0	15	46	В	23
AVG thickness Kft	i	.48	1		.51	i .		.48			.41	i		.59
AVG trap freq GHz	J	.36]		.36	l		.46	ı		.41	l		.22
AVG lyr grd -N/Kft		92	<u>. </u>		103	L		95	_		85			_87

ELEVATED DUCT SUMMERY:

PARAMETER	YEARLY day nit dan			J	M-NB	AR	Ai	R-J	HU	Ji	JL-SI	EP	01	CT-DI	EC
	day	nit	din	day	nit	din	day	nit	đần	day	nit	din	day	nit	d&n
Percent occurrence	20	8	10	18	- 6	9	22	8	11	20	8	19	28	0	10
AVG top ht Kft			4.3			3.8	i		7.0	Į.		3.3	1		3.0
AVG thickness Kft			.42	<u> </u>	_	.59			.24	i		.49	i		.44
AVG trap freq GHz			.60			.27			1.1			.47			.57
AVG lyr grd -N/kft			68	ļ		63			59	i		57	i		61
AVG lyr base Kft			4.8	ĺ		3.4			6.8	[3.0	i		2.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCEN	900	URKENCE	71	CARLY	•	J	an-M	3.5	NI RI	-R-JI	114	- 31	UL-51	CP -	00	T-DE	EC
			day	nit	d&n	Cay	nit	din	day	nit	₫ £ n	day	nit	den	day	215	den
B t	18	Feet	2	2	2	3	- 5	4	1	1	1	Tī.	<u>ī</u>	1	2		2
10 to	20	Feet	2	4	3	2	5	3	2	3	2	2	5	3	1	3	2
20 to	30	Feet	_ 3	_ 7	5	5	8	6	2	5	3	_3	7	5	3	7	_ 5
30 t	49	Feet	5	9	7	6	11	8	4	5	5	5	8	6	6	13	9
40 1	50	Feet	8	14	11	9	15	12	7	18	9	6	14	10	8	16	12
58 t	60	Feet	10	_16	13	11	16	13	8	15	12	9	15	12	11	18	14
69 1	78	Feet	18	13	11	10	13	11	8	12	10	10	13	12	11	13	12
78 %	88	Feet	10	9	9	19	9	10	10	16	10	9	9	9	9	9	9
80 t	98	Feet	_ 7	6	7	8	5	6	6	7	. 7	_9	. 8	8	7	_ 4	6
98 t	100	Feet	5	4	4	5	2	3	5	6	6	6	4	5	5	Ž	4
above	198	Feet	39	17	28	33	14	23	47	26	37	39	17	28	37	13	25
Hean I	ne i gh	nt Feet	184	72	88	96	65	81	113	84	99	105	72	88	102	_66	84

GENERAL HETEOROLOGI			-					-						= =	-
PARAMETER	YE	RRL'	Y	31	en-M	HR	H	アーノ	אט	1 30	JL-SE	:P	1 0	CT-DI	EÇ
	day	nit	d£n	day	nit	dŁn	day	nit	d&n	day	nit	dan	day	nit	d&n
% occur EL&SR dcts			4			4			6			3			3
% occur 2+ EL dcts			3			3	i		2	l		1	1		4
AVG station N			346			373	•		337	ĺ		324	1		349
AVG station -H/Kft			19			23	ļ		16	ŀ		16	1		22
RVG sfc wind Kts	12	11	12	14	12	13	111	11	11	12	10	11	12	11	11

Specified location: 15 00 S 105 00 E (*) INDICATES INSUFFICIENT DATA Radiosonde source : 96996 12 18 S 96 49 E

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E

Radiosonde station height: 16 Feet

Surface obs source: MS361 15 00 S 105 00 E

Pi		DECURRENCE	OF E	нани	CED :	SURF	ACE-	<u> TO-SI</u>	URFA	CE R	ADAR.	/ESM	COM	RAN	GES:		
ı	FRE	DUENCY		EARL			AN-H			PR-J			UL-S			CT-DI	
L			day	nit	_d&n	day	nit	_d&n	day	nit	_d&n	day	nit	d£n	day	nit	dan
1	100	MHZ	1	9	8	1	0	1	0	9	0	1	9	Ø	1	0	8
1	1	GHz	35	14	24	37	15	26	33	16	25	30	12	21	1 38	12	25
L	3	GHz	48	25	37	49	24	36	48	30	39	46	26	36	51	22	37
	6	GHz	81	72	77	80	69	74	88	75	78	82	75	79	83	76	76
	10	GHz	94	93	93	94	91	92	93	93	93	94	94	94	94	94	94
L	20	GHz	97	96	96	96	95	95	97	97	97	98	98	98	96	95	96

SURFACE BASED DUCT SUMMARY:

PARAMETER		EARL'			AH-H			PR-J			JL-SI			CT-DI	
	day	nit	dkn	day	กาเ	dŁn	day	nit	d&n	day	nit	dŁn	day	nit	din
Percent occurrence	5	9	2	6	0	3	3	9	- 2	3	Ø	2	6	A	3
AVG thickness Kft			.31			.36			.19	`	-	.45	Ĭ	•	.26
AVG trap freq GHz			.65	İ		.53	l		1.2	ļ		.28			.64
BVG lyr grd -N/Kft			163			119			159			253	ļ		122

PARAMETER		EARL'	-		AH-M			PR-JI			UL-SI			CT-DI	
	day	nit	d&n	day	nit	den	day	nit	d&n	day	nit	dŁn	day	nit	dŧn
Percent occurrence	20	0	18		0	11	14	0	7	19	8	18	24	8	12
AVG top ht Kft			6.6	l		6.3	ı		6.3			6.6		•	7.2
AVG thickness Kft			.43	1		.43	ı		.46	ŀ		.44	1		.41
AVG trap freq GHz			.36			.34	<u> </u>		.36			.33	_		.43
AVG lyr grd -N/Kft			60	į .		61	1		60			60	i		57
AVG lyr base Kft			6.3	1		6.8	1		6.0			6.3			6.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCEN	900	URRENCE	} YE	HRLY	′	J	AH-H	RR	R	R-JI	JH	JI	JL-SE	P	00	T-DE	C
			day	nit	dån	day	nit	d&n	day	nit	din	day	nit	dên	day	nıt	d&n
8 5	19	Feet	2	2	2	1	2	3	2	1	2	1	1	1	2	2	- 2
10 to	20	Feet	1	2	2	1 =	3	2	1	2	2	1	1	1	1	3	2
20 t	38	Feet	3	3	_ 3	3	4	3] 4	4	4	3	4	4	3	2	2
38 t	49	Feet	5	7	6	6	9	8	6	6	6	6	6	6	4	8	- 6
40 to	50	Feet	8	13	11	8	13	11	8	12	18	7	13	16	Я	15	12
_ 50 to	69 €	Feet	11	17	14	11	16	14	11	16	14	10	17	14	12	19	16
60 to	70	Feet	12	17	15	12	17	14	11	16	14	14	18	16		17	14
78 to	88	Feet	11	13	12	10	11	11	11	13	12	13	14	14		12	18
80 to	98	Feet	9	7	8	7	6	6	9	8	9	وَ ا	9	9	8	6	7
90 to	100	Feet	5	4	5	4	3	4	5	5	5	7	6	- 6	5	3	
above	100	Feet	33	14	23	35	15	25	32	16	24	28	12	20	36	12	24
Hean I	e i gh	t Feet	96	71	84	98	71	84		74	84	89	70		181	78	86

PARAMETER		EARL'	-		H-HA			R-Ji			JL-SI			CT-D	
	day	nit	din	day	nit	din	day	nit	din	day	nit	din	dav	nit	din
≈ occur EL&SB dcts			1			1			1			8			1
% occur 2+ EL dcts			2			2	i		1			1	l		3
AYG station H			362	i		363	l		364			368	ļ		362
AVG starion -N/Kft			16			16	l		16			16	1		16
AVG sfc wind Kts	13	13	13	12	11	12	14	13	13	15	14	15	13	12	12

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 12 10 S 96 49 E

Radiosonde source : 96996 12 10 S 96 49 E

Radiosonde station height: 10 Feet Surface obs source: MS362 15 00 S 95 00 E

PERCENT OCCUPRENCE OF ENHANCED SUBFOCE-TO-SUPFACE PADAP/FSM/COM PANCES:

	CCOKKENCE		14111111		2011											
FREC	DUENCY	Y	EARL	Y	Ji	AN-MI	12	l ei	R-JI	JH .	J(JL-SI	EP	1 0	CT-DI	EC
		day	nit	din	day	nit	d&n	day	nit	dŁn	day	การ	d&n	day	nit	din
169	HHZ	1	9	. 6	1	0	1	0	Ð	0	1	- 8	8	1	8	9
1	GHz	30	10	28	29	12	29	34	10	22	26	7	16	38	11	26
3	GHz_	45	21	33	42	23	32	58	21	_36	45	20	_32	43	21	32
6	GHZ	79	69	74	76	68	72	81	69	75	82	71	77	78	68	73
10	GHz	93	91	92	92	92	92	94	91	92	95	91	93	92	98	91
20	GHz	97	96	97	96	97	96	96	97	97	99	96	97	96	95	95

(+) INDICATES INSUFFICIENT DATA

SURFACE BASED DUCT SUMMARY:

	,0,,,,,,	****													
PARAMETER	Y	ARL	Ÿ	3	M-KA	R.	A	R-J	JN	Ji	JL-Si	EP	0	CT-DI	EC
	day	nit	dŁn	day	nit	d&n	day	nit	din	day	nit	dŧn	day	nit	din
Percent occurrence	5	8	2	6	9	3	3	. 8	2	3	9	2	6	- 6	3
AVG thickness Kft	l		.31	l		.36	ĺ		. 19	l		.45	ı		.26
AVG trap freq GHz	i		. 65			.53	l		1.2	1		. 28			.64
AVG lyn grd -N/Kft			163	L		119			159			253			122

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL	Y	J	คห-หเ	AR	A.	PR-J	UN	31	JL-S!	EP	01	CT-DI	EC _
	day	nit	d&n	day	nit	dŁn	day	nıt	din	day	nit	dŁn	day	nit	dŁn
Percent occurrence	28	Ø	10	21	8	11	14	9	7	19	0	18	24	9	12
AVG top ht Kft	l		6.6	!		6.3			6.3	<u>l</u>		6.6			7.2
AVG thickness Kft			.43	J _		.43	i		.46	ŀ		.44			.41
AVG trap freq GHz			.36	Г		.34			.36			-33			.43
AVG lyr grd -N/Kft			68	1		61	ł		60	i		69			57
AVG lur base Kft	ĺ		6.3	ĺ		6.0	•		6.8	ĺ		6.3			6.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCURRENCE	YI	EARL	r	J	AN-M	RR	A	PR-J	UH	3	UL-S	EP T	6	CT-DI	EC
		day	nit	d&n	day	nit	dŁn	day	nit	dtn	day	nit	din	day	nit	din
8 10	10 Feet	2	1	1	2	1	1	3	1	2	1	1	1	1	1	1
18 to	20 Feet	2	3	2	2	2	2	1	2	2	1	3	2	2	4	3
20 to	30 Feet	4	5	4	4	5	4	3	- 6	_ 4	4	5	4	5	5_	5_
30 to	40 Feet	6	8	7	6	11	8	5	8	6	6	6	6	6	9	8
48 to	50 Feet	9	14	11	12	13	12	8	14	11	8	15	11	9	13	11
50 to	68 Feet	12	18	15	15	18	17	9	18	14	13	17	15	12	17	14
6 8 to	78 Feet	12	17	15	11	17	14	12	16	14	13	20	16	13	16	14
70 to	89 Feet	11	13	12	19	11	16	18	14	12	13	14	14	12	13	13
83 to	90 Feet	8	7	8	7	6	_6	8	_ 7	8	11	9	10	ϵ	8	_ 7
99 to	100 Feet	7	4	5	5	5	5	7	4	6	8	4	- 6	6	3	4
above	100 Feet	28	10	19	26	12	19	33	10	22	24	7	15	28	11	19
Hean he	ight Feet	88	66	77	88	68	78	94	6€	88	84	63	74	87	67	77

PARAMETER	YEARL	7	JAH-	MAR	RPI	R-JUH	JUI	L-SEP	OC	T-DEC
	day nit	din	day ni	t din	day i	nit din	day :	nit dan	day	rit dir
% occur EL&SB dcts		1		1		1		θ		
% occur 2+ EL dcts		2	ļ	2	ļ .	1	I	1	1	3
AVG station N		362	!	363	!	364	•	369	!	362
AVG station ~N/Kft		16		16	İ	16	ı	16	l	16
AVG sfc uind Kts	15 15	15	13 1	3 13	16	16 16	18	17 17	15	14_15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 15 00 S 45 00 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 63894 6 52 S 39 12 E

Radiosonde station height: 180 Feet Surface obs source: MS367 15 00 S 45 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-IO-SURFACE RADAR/FSH/COM RANGES:

FREQUENCY	Y	EARL	Y	Ji	AN-M	AR	AI	PR-J	UN	51	JL-SE	Р	O	CT-DE	EC
	day	กรัช	dån	day	nit,	ರ ೭೯.	day	nit	den	day	nit	dŁn	day	nit	dŁn
100 MHz	1	1	1	1	1	1	2	1	1	1	8	1	2	1	1
1 GHz	43	13	28	42	14	28	43	13	28	38	12	25	49	13	31
3 GHz	54	21	37	51	21	36	57	24	41	49	26	34	58	20	39
6 GHz	88	57	68	76	57	66	86	67	76	78	53	65	80	52	60
10 GHz	93	84	88	91	83	87	96	88	92	92	83	88	92	82	8
20 GHz	1 96	92	94	95	92	94	98	93	96	96	92	94	96	91	3.

SURFACE BASED DUCT SUMMARY:

PARAMETER	YI	EARL'	Ý	J:	AN-H	AR	AI	R-J	JH	Ji	JL-SI	EP	0	CT-D	EC
	day	กระ	d£n	day	nit	dŁn	day	nit	den	day	nit	din	day	nit	dŁn
Percent occurrence	12	7	9	11	10	11	16	6	11	4	3	4	16	9	13
AVG thickness Kft			.19	1		.19	i		.21	ı		.28	1		. 15
AVG trap freq GHz			1.4			1.8	ı		1.3	1		.55	i		2.8
AVS lyn grd -N/Kft			215			155			319			185			200

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	'	3	H-HE	AR	Af	PR-JI	אט	J	JL-SI	EP	00	T-DI	ĒÇ.
	day	nit	d&n	day	nıt	dkn	day	nit	d&n	day	การ	din	day	nit	dŧn
Percent occurrence	8	13	10	9	7	- 8	6	9	- 8	11	15	13	6	19	13
AVG top ht Kft	İ		6.1	i		4.8	ı		5.9	l		7.9	i		5.9
AVG thickness Kft			.46	i .		.59	j		. 48	i		.42	i		.46
RVG trap freq GHz			.48			38 ،			.38			.51			.41
AVG lyr g 1 -N/Kft			61			61	l		58	l		64			59
AVG lyr be e Kft	L.		5.8	1		4.5	ŀ		5.5	ŀ		7.6			5.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	CCCU	RRENCE	YI	EARL	r	J	AH-MI	ar -	A	PR-JI	UHi]	UL-SI	EP	00	CT-DE	EC
			Cay	กระ	đin	day	nit	d&n	day	nit	din	day	nit	d&n	day	nit	d&n
9 to	10	Feet	2	1	2	2	1	2	1	1	1	1	2	1	2	1	2
10 to	20	Feet	2	7	5	3	7	5	2	5	3	2	7	5	2	9	6
20 to	36	Feat	4	_8	6	5	_ 10	7	3	5	_4	4	9	6	5	10	7
38 to	40	Feet	5	11	8	6	11	9	5	9	7	6	13	9	5	12	9
40 to	58	Feet	9	17	13	10	17	13	7	13	10	9	18	14	8	19	14
<u>58</u> to	68	Feet	10	18	14	11	19	15	16	_18	14	11	16	14	10	17	14
60 to	78	Feet	10	12	11	9	12	11	11	16	13	18	18	10	8	10	
78 to	88	Feet	8	8	8	6	7	6	18	11	16	9	8	8	6	7	6
80 to	90	Feet	6	5	5	5	4	4	8	7	8	6	5	5	4	3	4
90 to	166	Feet	4	2	3	3	2	<u>_</u> 2	6	4	5	5	3	4	3	2	2
above	168	Feet	40	10	25	40	11	25	38	18	24	36	19	23	46	18	28
Hean he	e 1 ght	Feet	104	6:	83	104	61	82	191	65	83	99	60	79	113	59	86

PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit din	day nit dan	day nit dan	day nit dan	day nit dan
% occur EL&SB dcts	1	1	1	9	1
% occur 2+ EL dcts	e	9	0	1 1	1
AVG station H	378	379	372	357	372
AVG station -N/Kft	16	13	16	14	18
AVG sfc wind Kis	19 19 19	8.9 8.5 8.7	12 11 11	12 19 11	9.1 8.8 9.0

IREPS REV 2.1

HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 15 00 S 35 00 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 63894 6 52 S 39 12 E

Radiosonde station height: 180 Feet Surface obs source: MS368 15 00 S 35 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

TENGETTI GOOGKKETICE	<u> </u>		<u> </u>	JU:11		• • •	2111	J. 711		****					
FREQUENCY	יא	ERRL'	Υ	J	AN-H	R.	RI	アトノリ	JH	31	JL-SI	EP	0	CT-DE	EC
	day	nit	den	day	nit	d&n	day	nit	din	day	nit	dŁn	day	nit	dån
188 MHz	1	1	1	1	1	1	2	1	1	1	8	1	2	1	1
1 GHz	38	13	25	43	17	38	37	12	24	39	9	20	42	12	27
3 GHz	51	23	37	54	26	48	52	27	39	43	18	31	54	28	37
6 GHz	79	63	71	88	67	74	82	79	76	75	55	65	79	58	68
18 GHz	j 93	88	98	92	89	31	94	98	92	92	85	88	92	87	89
20 GHz	96	95	95	95	96	96	98	95	95	96	92	94	95	95	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	ARL	Y	1	H-NA	iR .	AF	R-JU	JH		JL-SE	P	Ö	CT-DI	EC
	day	nit	din	day	nit	d &ก	day	nit	d&n	day	nit	dŁn	day	nit	d&n
Percent occurrence	12	7	9	11	10	11	16	6	11	4	3	4	16	9	13
AVG thickness Kft			. 19	ĺ		.18	ĺ		.21			.28	1		. 15
AVG trap freq GHz			1.4	1		1.8			1.3	i		. 55	1		2.8
AVG lyr grd -N-Kft			215	L		155	Ĺ	_	319			185			288

ELEVATED DUCT SUMMARY:

FEEAUIEN DOCT SOUGH														
PARAMETER	YER	RLY	T	<u> </u>	AR	A	R-J	UH	31	UL-SI	EΡ	O	CT-DI	EC
	day n	it da	day	<u>nit</u>	dŧn	day	nit	dŁn	day	nit	din	day	nit	d£n
Percent occurrence	8	13 1	9	7	8	6	9	8	11	15	13	6	19	13
RVG top ht Kft		6.	l I		4.8	i		5.9	1		7.9	}		5.9
AVG thickness Kft		.49	5		. 50	<u> </u>		.48	L		.42	L		.46
AVG trap freq GHz		.41	1		.36	Г		.38			.51			.41
RVG lyr grd -N/Kft	i	6:	ı İ		61	ì		58	ļ		64	ļ		59
AVG lyr base Kft		5.1	₃[4,5			5.5	L		7.6	<u> </u>		5.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURI	RENCE	YEARL	Y	J	AN-M	ar	l Al	PR-31	UH]]	UL-S	EP	C	CT-DI	EC
	da	y nit	din	day	กาเ	din	day	nit	dŁn	day	nit	d&n	day	nit	dån
0 to 10 F	ret	2 1	2	2	1	2	1	1	I	1	1	1	3	2	3
10 to 28 F	tet	2 5	3	3	3	3	2	5	3	2	6	4	2	4	3
28 to 38 Fe	ret	4 7	6	3	8	6	4	6	5	5	8	6	_3	8	6
30 to 40 Fe	ret	5 10	8	5	9	7	5	7	6	6	12	9	5	13	- 9
40 to 50 Fe	ret	9 16	13	8	14	11	9	13	11] 11	19	15	19	18	14
58 to 68 F	ret 1	1 18	15	11	19	15	9	17	13	13	19	16	11	19	15
60 to 70 F	et i	8 14	12	11	16	13	12	16	34	31	13	12	9	12	18
78 to 88 Fe	eet	99	9	7	8	7	12	12	12	10	ż	R	7	16	8
88 to 98 Fe	tet	76	7	7	- 6	6	8	7	8	7	6	7	7	4	Æ
98 to 108 F	191	5 3	4	3	3	3	5	6	6	6	3	4	4	2	3
above 180 Fe	ret 3	5 19	22	41	13	27	32	18	21	28	8	18	39	9	24
Mean height!	eet 9	7 63	88	185	66	86	93	66	79	89	58	74	182	60	81

PARAMETER	YE	ARLY	′	Ji	H-Hi	1R	AF	-JI	JH	J	JL-S!	P	00	CT-DI	EC
	day	nit	dŁn	day	nit	din	day	nit	den	day	nit	din	day	nit	dŁn
% occur EL&SB dcts			1			1			1			0			1
% occur 2+ EL dcts			8	ļ .		8	i		8			1			1
AVG station N			370	l		379	ł		372			357	i		372
RVG station -H/Kft	ļ		16			18			16			14	}		18
AVG sfc wind Kts	11	11	11	10	10	10	12	11	11	12	19	11	12	11	_11

IREPS REV 2.1

Specified location:

15 00 S 15 00 E

(*) INDICATES INSUFFICIENT DATA

Radiosonde source : 66160 8 51 S

13 13 E

Radiosonde station height: 243 Feet

Surface obs source: MS370 15 88 S 15 00 E

PERCENT OF CORRENCE	JF EI	HULLIN	FED :	PORF	10E-	10-31	UFFR	JE KI	חשתר	<u> (520-</u>	CUR	Knn	<u> </u>		
FREQUENCY	Y	ARL'	7	Ji	7H-M	1R	Ai	R-JI	JK	JI	JL-SI	EP	00	ומ-דכ	EC
	day	nit	din	day	nit	din	day	nit	dŁn	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	2	- 0	1	1	9	- 8	1	0	1	2	0	1
1 GHz	20	8	14	25	9	17	16	6	11	17	7	12	23	7	15
3_GHz	24	9	_17	30	12	21	20	8	14	20	8	14	27	9	18
6 GHz	39	22	30	50	34	42	37	22	29	28	13	21	40	18	29
10 GHz	67	57	62	78	73	75	71	62	66	53	40	46	69	53	61
20 GHz	83	77	89	89	87	88	86	89	83	75	- 66	71	83	74	79

PARAMETER	Y	EARL	7	J	AN-H	iR .	AP	R-JI	JN	Ji	JL-SI	P	0	CT-D	EC
	day	nit	dån	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nıt	d&n
Percent occurrence	12	- 0		15	0	8	9	- 8	5	9	- 0	5	15	8	8
AVG thickness Kft	,		.16	•		.22	1		.12	1		.17	1		.12
AVG trap freq GHz			1.3			1.6	ŀ		1.5			.69			1.2
AVG lyr grd -H/Kft			169			235	i		130			182	l		127

FIEVATED DUCT SUNHAPY

PARAHETER	Y	EARL'	Y	J	ลิห-หล	RR	Af	R-JI	JH	JI	JL-SI	EP	ő	CT-DI	EC
	day	nit	dèn	day	nit	d&n	day	nit	dên	day	nit	din	day	nıt	d&n
Percent occurrence	14	23	19	g.	17	12	23	33	28	28	42	31	7	0	4
AVG top ht Kft			4.0	l		4.6	i		2.7	1		4.5			4.4
AVG thickness Ift	<u> </u>		:62	i .		.61	! .		.68			.51	!		.67
AVG trap freq GHz			.39	Ī		. 54			.28			.38			.36
AVG lyr grd -N/Kft			57			52	l		55	ł		58	J		63
AVG lyn base Kft			3.5	1		4.0	1		2.1			4.1	[4.0

EVAPORATION DUCT HISTOGRAM IN PEPCENT OCCURRENCE:

PERCENT	OCCURRENCE	YS	PARLY	7	J	ลห-หเ	7P.	Ri	PR-JI	JH _	J	JL-SI	P	00	CT-DE	C
		day	nit	den	day	nit	dkn	day	nit	d&n	day	<u>n</u> it	d&n	day	n1t	d&n
0 to	10 Feet	8	9	- 8	6	6		6	- 8	7	9	11	10	9	18	9
10 to	20 Feet	11	15	13	7	7	7	9	12	11	18	23	28	10	17	14
20 10	30 Feet	18	28	19	12	14	13	17	18	18	25	26	25	17	21	19
30 to	40 Feet	17	20	19	14	26	17	19	22	26	18	19	18	17	28	19
48 to	50 Feet	14	15	15	16	18	17	17	18	18	8	3	8	14	16	15
58 +0	60 Feet	9	8	. 9	12	15	13	11	8	10	4	3	4	9	7	8
68 to	70 Feet	4	3	3	6	5	5	5	4	4	2	1	1	3	1	2
78 to	80 Feet	2	1	2	3	3	3	3	1	2	1	1	1	2	1	1
80 10	90 Feet	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1
98 to	100 Feet	1	1	1	1	1	1	1	1	1	1	1		1	1	1
above	100 Feet	16	8	12	20	9	15	13	6	10	13	7	10	17	7	12
Hean he	right Feet	57	43	58	68	52	69	35	43	49	47	_37	42	58	41	49

PARAMETER	YEARLY	T	JAN-HAR	APR-JUN	JUL-SEP	OCT-DEC
L	day nit d	n day	y nit dan	day nit dan	day nit dan	day nit dan
% occur EL&SB dcts		1	1	0	2	2
% occur 2+ EL dcts		0	8	9	0	0
AVG station N	3	51	368	365	350	361
AVG station -N/Kft		[7]	18	18	15	17
AVG sfc wind Kts	11 11	1 9.3	3 10 10	11 11 11	11 16 11	11 11 11

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 15 00 S 5 00 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 66160 8 51 S 13 13 E

Radioson e station height: 243 Feet

Surface obs source: MS371 15 00 S 5 00 E

DEPCENT ACCHARGENCE OF ENVINCES CHREACE_TO_CHREACE DASOS/COM/COM BONCES

												CON				
FRE	DUENCY	YE	ARL'	Υ	JI	RH-MI	3R	81	PR-J	JH	Ji	JL-SI	EP	_ O(CT-DI	EC
		day	nit	dŧn	day	nit	d&n	day	nit	din	day	nit	d&n	day	niz	d&n
100	MHZ	1	8	1	2	- 0	1	1	9	0	1	0	1	2	- 8	1
1	GHz	34	9	21	39	11	25	43	11	27	25	5	15	31	8	20
3	GHz_	_44	_13	28	47	17	32	_55	17	_36	33	8	21	39	11	25
6	GHZ	73	50	61	74	56	65	84	60	72	69	43	56	65	40	50
10	GHz	93	87	98	92	89	98	96	91	94	92	86	89	98	83	86
29	GHz	97	96	96	96	95	96	98	97	98	96	96	96	96	94	95

SUPPORE ROSED BUCT SUMMARY.

PARAMETER	Y	EPRL'	r	J	AH-111	R T	6F	R-Ji	JN	31	JL-SI	ΕP	00	T-DI	EČ
	day	_nit	đěn	day	nıt	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	12	0	6	15	- 0	8	9	0	5	9	0	5	15	Ð	8
AYG thickness Kft	l		.16	ļ		.22	l		.12			.17			.12
AVG trap freq GHz	•		1.3	İ		1.6	i		1.5	1		.69	1		1.2
AVG lyr grd -N/Kft	L		169	<u>L</u>		235	L		130	L		182			127

ELEVATED DUCT SUMMARY:

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C

PARAMETER	YI	EARL'	Υ	31	AN-MI	AR .	AF	PR-J	JN	JU	JĒ-SI	Р	00	T-DI	EC
	day	nit.	dtn	day	_nit	_d&n	day	nit	_d&n	day	011	din	day	nit	d&n
Percent occurrence	14	23	19	6	17	12	23	33	28	20	42	31	7	- 0	4
AVG top ht Kft			4.0			4.6	[2.7			4.5	1		4.4
AVG thickness Kft	Ĺ		.62	_	_	.61	l		. 68			.51			.67
AVG trap freq GHz			.39			.54			.28			.38			.36
AVG lyr grd -N/Kft	ĺ		57			52	i		55			58			63
AVG lyr base Kft	Į.		3.5	l		4.0			2.1	1		4.1	l		4.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCURRENCE	YI	RRL'	,	J	AN-MI	ar .	Ri	PR-JI	ИU	5	JL-SI	P	ŏ	T-DE	C
		day	nit	dan	day	nıt	d&n	day	nit	ರಹಿಣ	day	nit	d&n	day	nit	d&n
8 to	10 Feet	2	1	2	2	- 2	2	2	1	1	2	1	1	3	2	2
18 to	20 Feet	2	3	2	2	3	3	1	2	1	2	3	3	3	4	3
20 to	30 Feet	5	_ 8_	6	4	_ 7	6	2	6	4	5	9	7	. 7	12	9
30 to	40 Feet	9	15	12	9	12	10	4	11	8	10	19	15	12	20	16
40 to	50 Feet	13	22	18	12	20	16	9	28	14	15	24	28	16	23	20
50 to	68 Feet	13	18	16	12	19	16	11	19	15	16	19	18	14	15	15
60 to	70 Feet	11	12	11	9	13	11	11	14	13	13	11	12	9	9	9
78 to	80 Feet	8	6	7	8	7	7	9	9	9	9	5	7	6	4	5
80 to	90 Feet	5	3	4	4	_ 4	4	7	4	6	5	2	4	3	2	3
90 to	100 Feet	3	2	2	3	2	3	5	2	4	3	1	2	2	1	2
above	100 Feet	30	9	28	35	11	23	41	11	26	21	5	13	26	8	17
Hean he	ight Feet	98	58	74	97	62	79	105	64	85	77	51	64	82	55	68

PHRAMETER	YE	RLY	,	Jf	H-H	38	AF	R-J	M	31	JL-SE	P	č	T-DE	C
L	day e	316	d&n	day	กาเ	dŁn	day	กาเ	din	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			_			1			0			2			2
% octur 2+ EL dcts	ļ		9			8	l .		9			9	ļ		9
AVG station N	i		361			358	i		365			350	i		361
AVG station -H/Kft	i		17			18	İ		18	Į		15	ł		17
AVG sfc wind Kts	13	12	_13	12	11	12	13	12	13	15	14	15	13	12	12

(*) INDICATES INSUFFICIENT DATA 20 30 S 29 19 W

SEECH LIBERT SEECH CONTROL OF CONTROL OF CONTROL OF CONTROL OF THE CONTROL OF

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Radiosonde source : 83650 20 30 S 29 19 W Radiosonde station height: 69 Feet Surface obs source: MS375 25 00 S 35 00 H

PEPCENT OCCUPRENCE	OF EI	<u> 1HAH(</u>	CED S	SURF	RCE-	<u> </u>	<u>JRFAI</u>	CE R	ADAR.	<u>/ESH</u>	/COM	RANG	<u>:ES:</u>		
FREQUENCY	Y	FARL	γ	J	H-HI	R.	A	PR-J	UN	Ji	リレーSI	EP	Ö	CT-DI	EC
1	day	nit	d&n	day	nit	d&n	day	nıt	d&n	day	nit	d&n	day	nit	d&n
180 MHz	10	- 0	- 5	20	8	10	*	¥	*	2	- 0	1	9	0	4
1 GHz	56	9	32	84	11	47	*	*	*	30	7	19	53	7	30
3 GHz	66	14	40	95	19	57	+	¥	*	40	14	27	63	10	36
6 GHz	82	47	65	99	55	77	*	*	*	68	42	55	80	42	61
10 GHz	93	81	87	100	86	93	*	*	*	87	77	82	91	79	85
20 GHz	96	92	94	100	95	97	*	*	*	93	89	91	95	91	93

SURFACE BASED DUCT S	SUMMERY:													
PARAMETER	YEARLY	<u> </u>	J	AH-MF	ir 🗌	Ai	PR-J	ИL	31	JL-SI	EF	O:	ות-דכ	EC
	day nit	d&n	day	nit	d&n	day	nit	d&n	day	nít	d&n	day	nit	d&n
Percent occurrence	41 0	21	100	0	50	0	0	Ø	15	- 0	8	50	9	25
AVG thickness Kft	1	. 46	ł		.52	l		#			. 44			. 43
AVG trap freq GHz	ł	. 69			.38	ł		*			1.2			.48
AVG lyr grd -N/Kft	<u> </u>	87	<u> </u>		70			*			122			78

PARAMETER	Y	ERRL	8	JI	AH-HI	R.	Af	R-JI	JH	Ji	ルーSI	EP	01	CT-DI	EC
	day	nit	d&n	day	nit	dan	day	nit	d&n	day	nit	d&n	day	nit	dan
Percent occurrence	14	- 6	7	15	8	8	10	8	5	19	0	10	13	0	7
AVG top ht Kft	!		7.6	i		11			7.1	i		7.0	i		5.7
AVG thickness Kft	l	_	.53			.37	1		.37			. 55			. 34
RVG trap freq GHz			.43			.10			.60			.33			.71
AVG lyr grd -N/Kft	Ì		67	l		96	l		68	l		59			54
AVG lyr base Kft	ł		7.2	l		10	l		6.8	l		6.5	i		5.4

EVAPORATION DUCT HISTOGRAM IN PEPCENT OCCURRENCE:

PERCENT	occu	RRENCE	YE	EARLY	7	J	H-HF	AR T	91	PR-J	JH	J	UL-SE	P	0	CT-DE	EC
			day	nıt	dŧņ	day	nit	d&n	day	ក1 🕏	d&n	day	nit	dån	day	ոււ	dan
0 to	18	Feet	4	4	4	2	2	2	2	2	2	4	6	- 5	6	- 6	6
10 to	28	Feet	3	4	4	2	4	3	3	4	3	3	5	4	4	4	4
20 to	38	Feet	6	_ 10	. 8	4	8	- 6	5	7	- 6	7	12	10	7	11	9
30 to	49	Feet	8	16	12	6	14	10	7	14	11	9	18	14	10	19	14
40 to	50	Feet	10	18	14	8	17	13	10	19	14	12	17	14	1:	18	14
50 to	60_	Feet	12	17	14	10	18	14	13	19	16	12	13	13	12	_17	14
60 to	78	Feet	18	11	10	9	11	10	12	14	13	9	9	9	10	10	10
79 to	80	reet	8	7	7	8	8	8	10	7	9	8	6	7	7	6	6
80 to	98	Feet	5	4	4	4	6	5	5	5	5	_ 5	4	4	4	2	3_
90 to	100	Feet	4	2	3	5	2	4	5	3	4	4	3	4	2	1	2
above	100	Feet	31	8	19	41	11	26	29	6	17	24	7	16	29	7	18
Hean he	eight	Feet	89	57	73	184	64	84	89	57	73	79	53	66	85	<u>53</u>	69

PARAMETER	Y	ARL'	Ý	J	H-HE	AR	AF	R-JI	ин	31	JL-SI	EΡ	Ô	T-DE	C
	day	nıţ	d&n	day	nit	dan	day	nit	dan	day	mit	den	day	nit	d&n
% occur EL&SB dcts			2			3			0			0			5
% occur 2+ EL dcts			9	1		9			9	l		2			8
NYG station N			366	1		374	l		364			351	l		375
AVG station -N/Kft			19	i		21	i		17			17	i .		21
AVG sfc wind Kts	12	12	12	11	11	11	111	10	11	13	12	12	13	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 25 00 \$ 35 00 ₩ (+) INDICATES INSUFFICIENT DATA

Radiosonde source : 83650 20 30 \$ 29 19 H

Radiosonde station height: 69 Feet Surface obs source: MS375 25 80 \$ 35 00 W

PEDCENT ACCUIDABAGE OF ENHANCED SUBFACE-IN-SUBFACE BADAD/ESH/COM BANGES:

TENCENT OCCORNENCE	<u> </u>	*******	<u> </u>	JUKI I	300	10-30	OKT III	- L	IDIIK	COIL		NOW	350.		
FREQUENCY	Y	ERRL'	Y	31	AN-MA	1R	คา	PR-J	HU	Ji	JL~SI	EP	_00	CT-Di	ÉC
!	day	nit	dan	day	nit	d&n	day	nit	dån	day	nit	d&n	day	nit	dan
100 MHz	10	0	5	20	- 8	10	*	*	*	2	0	1	9	0	4
1 GHz	56	9	32	84	11	47	*	*	*	30	7	19	53	7	30
3 GHz	66	14	40	95	19	57		*	*	48	14	27	63	10	36
6 GHz	82	47	65	99	55	77	*	+	*	68	42	55	80	42	61
10 GHz	93	81	87	100	86	93	*	*	*	87	77	82	91	79	85
20 GHz	96	92	94	100	95	97	*	*_	*	93	89	91	95	91	93

SURFACE RESED DUCT SUMBARY:

SUKFRICE BRISED DUCT 3	DUININK L.				
PARAMETER	YERRLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit din	day nit dan	day nit dan	day nit dan	day nit dan
Percent occurrence	41 0 21	100 0 50	0 0 0	15 0 8	50 0 25
AVG thickness Kft	.46	.52	*	.44	.43
AVG trap freq GHz	.69	.38	*	1.2	.48
AVG lyr grd -N/Kft	87	70	*	122	78

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	JI	AN-MI	R.	AI	R-JI	UH _	5	JL-SI	EP_	00	CT-DI	EC
	day	nit	din	day	nit	d&n	day	nit	din	day	nit	d&n	day	nit	den
Percent occurrence	14	9	7	15	8	8	10	9	5	19	8	10	13	9	7
AVS top ht Kft			7.6	i		11	i		7.1			7.0			5.7
AVG thickness Kft	L		.53	<u> </u>		.87			. 37	L		, 55	L		. 34
AVG trap freq GHz		_	.43			.10			.60			.33			.71
AVG lyr grd -N/Kft	i		67	1		96	1		60	ĺ		59	Į .		54
AVG lyr base Kft			7.2	l_		10			6.8	1		6.5			5.4

EVAPORATION BUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCC	URRENCE	Y	EARL	Y	J	AN-MI	ìR	Ai	R-JI	JH	JI	JL-SI	P	00	T-DE	C
L			day	nit	dŁn	day	nit	d&n	day	nit	d&n	day	nit	dan	day	nit	dŁn
9 10	10	Feet	4	4	4	2	2		2		2	4	6	5	6	- 6	6
10 to	20	Feet	3	4	4	2	4	3	j 3	4	3	3	5	4	4	4	4
20 to	30	Feet	_6	10	8	4	. 8	6	5	7	6	. 7	12	10	7	11	_9
30 to	40	Feet	8	16	12	6	14	10	7	14	11	9	18	14	10	19	14
48 to	58	Feet	19	18	14	8	17	13	19	19	14	12	17	14	11	18	14
58 to	66	Feet	12	_17	_14	10	18	14	13	19	16	12	13	13	12	17	14
60 10	70	Feet	10	11	10	9	11	10	12	14	13	9	9	9	19	16	10
78 to	80	Feet	8	7	7	8	8	8	18	7	9	8	6	7	7	6	6
80 to	90	Feet	5	_ 4	4	4	6	5	_5	_5	5	5	4	4	4	2	3
98 to	186	Feet	4	2	3	5	2	4	5	3	4	4	3	4	2	1	2
above	100	Feet	31	8	19	41	11	26	29	6	17	24	7	16	29	7	18
Hean h	eigh	t Feet	89	57	73	184	64	84	89	5?	73	79	53	66	85	53	69

PARAMETER	YE	RRL'	7	Ji	H-H	RR	RF	R-JI	JH	31	JL-Si	P	00	T-DE	E
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	dan	day	nit	d&n
% occur EL&SB dcts			2			3			0			0			5
% occur 2+ EL dcts			9			છે	i i		8	ĺ		2	İ		0
AVG station N			366			374	ĺ		354			351	i		375
AVG station -N/Kft	ĺ		19			21			17	l		17			21
AVG sfc wind Kts	12	12	12	11	11	11	11	18	11	13	12	12	13	13	13

(*) INDICATES INSUFFICIENT DATA Specified location: 22 49 S 43 15 W

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Radiosonde source : 83746 22 49 S 43 15 H

Radiosonde station height: 138 Feet Surface obs source: MS376 25 00 \$ 45 00 W

FREQUE	ICY	YEARL	Y	Ji	AM-MA	1R	RF	R-JU	JH	31	JL-SI	P	0	CT-DI	EC
L	da	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nış	d&n
100 MH	:	2 2	2	3	3	3	2	3	2	2	2	2	2	1	2
1 CH:	3 ع	4 17	26	43	22	33	32	28	26	27	14	21	36	13	24
3 GH:	2 4	1 23	32	51	29	40	46	26	33	33	19	26	_42	18	30
6 GH:	: 6	2 46	54	68	53	60	64	58	57	54	46	47	61	41	51
10 GH:	z 7	9 73	76	82	77	79	84	7?	81	74	69	71	77	71	74
20 GH:	ટ ક	6 85	85	87	87	87	91	88	89	83	82	82	83	82	83

SURFACE BASED DUCT	SUK <u>M</u>	RRY:													
PARAMETER	YI	ERRL'	Y	Ji	H-NE	AR	R	PR-J	ÜHÜ	31	UL-SI	EΡ	0.	T-DI	EC
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	15	12	14	22	19	21	12	15	14	10	8	9	16	6	11
AVG thickness Kft	}		.34	ŀ		.28	l		.39			.38	!		.31
AVG trap freq GHz	1		. 55	l		. 63	1		.47			.43	l		.69
AVG lyr grd -N/Kft	<u> </u>		105			88			121			121	<u></u>		88

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL	7	Ji	าห-หเ	38	AI	R-JI	JH	31	JL-SE	P T	ō	CT-DI	C
	day	nıt	d&n	day	nit	d&n	day	nit	dan	day	nit	d&n	day	nit	d&n
Percent occurrence	21	38	29	19	39	29	28	38	33	23	39	31	12	36	24
AVG top ht Kft	1		7.2	l		8.0	ĺ		7.4	ł		6.8	ŀ		6.7
AVG thickness Kft	l		.45	1		. 52	1		.43	l		.41	ŀ		.44
AVG trap freq GHz			.38			.32			.38		-	.39			. 44
AVG lyr grd -N/Kft			58	l		58	!		57	l		57	l		60
AVG lyr base Kft			6.9	i		7.6			7.0	l		6.5	I		6.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCI	URRENCE	YI	EARL'	Y	J	AN-KI	AR	_ RI	PR-JI	UN :	J1	JL-SI	EP :	00	CT-DE	ĒC
			day	nit	dån	day	nıt	d&r:	day	nit	d&n	day	nit	dån	day	nit	dŁn
Ø to	10	Feet	11	9	10	12	9	10	7	5	- 6	13	12	12	13	18	12
18 to	20	Feet	5	8	7	4	7	5	4	9	6	7	8	7	6	9	7
20 to	30	Feet	8	13	10	_ 7	12	9	8	12	10	9	15	12	8	13	10
30 to	40	Feet	10	15	12	8	13	11	10	14	12	11	16	14	9	17	13
40 to	50	Feet	18	16	13	8	16	12	13	17	15	11	15	13	9	14	12
58 10	60	Feet	9	12	_11	7	12	9	11	13	12	10	11	_10	ہ	12	10
60 to	76	Feet	8	8	- 8	8	9	8	8	9	9	7	- 6	7	7	7	7
70 to	80	Feet	6	5	5	5	6	6	6	5	6	6	4	5	5	5	5
80 to	90_	Feet	4	3	3	4	2	3	5	3	4	3	3	3	3	5	3
98 tc	100	Feet	2	2	2	2	2	5	3	2	2	2	2	2	2	2	2
above	100	Feet	28	16	19	34	12	23	26	11	18	22	9	15	29	10	19
Hean he	1gh	t Feet	78	53	66	88	57	72	79	5€	67	68	49	58	78	51	65

PARAMETER	YE	BRL	_	Jf	H-HI	AR .	AF	R-JU	ЛИ	31	JL-SI	P	o	CT-DI	EC
	day	nıt	din	day	nit	ರಹಿಗ	day	nit	d£n	day	nıt	dŧn	day	nıt	d&n
% occur EL1SB dcts			2			2			1			2			2
% occur 2+ EL dcts			4	ĺ		4	!		5			2			5
AVG station N			365			377	İ		366			356	l		362
AVG station -H/Kft			18			19	!		19	ļ		17	l		17
AVG sfc wind Kts	11	11	11	10	10	10	11	10	16	12	12	12	12	12	12

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 23 25 S 70 28 W (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 95442 23 25 S 70 28 W

Radiosonde station height: 400 Feet Surface obs source: MS379 25 00 S 75 00 H

PEDCENT OCCUPATION OF ENHANCES CHARACE-TO-CHARACE DAMAR/ECM/COM BANCES.

PERCEUI	OCCORRENCE_	UP E	NAME	נבט	SUPP	nce-	10	UKFRU	C KI	אחעה	<u> 2311 - </u>	CUR	KHIN	GE 3:		
FRE	QUENCY	Y	EARL	Y	J	กห-หเ	AR -	A	R-J	UH _	J	UL-SI	EP	01	CT-DI	EC
		day	nit	d&n	day	nit	d£ı.	day	nit	dan	day	nit	d&n	day	nıt	dan
100	HHz	1	1	1	1	1	ī	Ī	0	1	1	0	1	0	8	0
1	GHZ	26	13	19	33	23	26	21	9	15	18	6	12	32	16	24
3	GHZ	30	_ 17	24	38	26	32	25	13	19	22	9	15	36	20	28
6	GHz	49	36	43	62	54	58	43	38	37	48	24	32	51	36	44
10	GHz	78	73	75	8?	83	85	78	73	76	78	64	67	75	73	74
26	GHZ	88	88	88	93	92	93	99	87	68	83	83	83	88	87	86

SUPERCE RASED LUCT SUMMARYS

POKEMEE RHOED POOL 3	PURNH	IRT:													
PARAMETER	YE	ARL'	Υ	J	RIV-M	AR .	ЯF	<u>'8-1</u> 1	JH _		UL-SI	EP	01	CT-DI	EC
	day	nit	đần	day	nıt	d&n	day	nit	d&n	day	nit	d&n	day	nit	d÷n
Percent courrence	7	5	6	9	8	9	6	3	5	7	4	6	4	3	4
AVG thickness Kft			.38			.32	i		.26	ļ		.26	l		.36
AVG trap freq GHz			.94			.64			.81	ĺ		1.3	į		1.1
AVG lyr and -N/Kft	L		136	Ĺ		116		_	128		•	129	L		170

FLEVATED DUCT SUMMARY:

FEEANIER ROC! ZOUWHI	cr:									_				
PARAHETER	YEARL	Υ	J 31	AN-M	BR T	AI	R-J!	JH	J	JL-SI	EP	0	CT-DI	EC
	day nit	dan	day	nıt	d£n	day	nit	Can	day	การ	d&n	day	nit	dan
Percent occurrence	46 56	51	36	50	43	51	57	54	47	62	55	50	53	52
AVG top ht Kft		3.5	ļ		4.2	ł		3.2			2.9	l		3.5
AVG thickness Kft		.78	ŧ		.63	l		.89	I		.86	í		.82
AVG trap freq GHz		.12	1		.19			.11			.08			.18
RVG lyr grd -N/Kft		78	l		63	l		73			96	i		88
AVG lyr base Kft		3.0	L .	_	3.7		_	2.7			2.5			3.1

EMAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT (OCCURRENCE	Y	ARL	7	Ji	AN-M	२.२	A!	R-JI	JN	J	JL-S	EP	G	CT-DE	EC
		day	nıt	dŧn	dau	nit	d&n	day	nit	d&n	day	n:t	dẫn	day	nit	dŁn
9 ૧૦	10 Feet	5	4	5	4	4	4	-1	5	4	6	5	5	6	5	5
18 to 2	20 Feet	8	8	8	4	5	4	7	8	7	11	12	12	8	8	8
20 10	30 Feet	11	15	13	7	10	8	12	15	14	14	20	17	11	_ 15	_13
30 to	40 Feet	15	21	18	13	15	14	18	23	28	19	25	22	12	22	17
40 to 5	50 Fect	15	17	16	15	16	16	20	21	20	13	15	14	12	16	14
50 to 1	60 Feet	18	12	11	11	16	14	11	11	11	9	18	16	8	10	9
60 to	70 Fest	5	5	5	7	9	8	5	5	5	6	3	4	1	4	4
78 to 1	80 Feet	4	3	4	6	ಕ	6	3	2	2	4	3	3	4	3	3
88 to 9	90 Feet	_2	2	2	3	3	3	_ 2	1	1	2		2	2	2	2
90 to	100 Feet	1	1	1	2	2	- 2	1	2	2	1	8	1	1	ī	1
Shore.	100 Feet	23	11	17	29	16	22	18	8	13	15	5	10	31	14	23
'tean he	ight Feet	73	5÷	_63	84	66	<u>?5</u>	65	58	37	59	42	59	83	58	_70

PARAMETER	YERRLY	JAN-HAR	APR-JUH	JUL-SEP	OCT-DEC
Ĺ	day nit d&r	day nie din	day rit dan	day nit din	day nit dan
% occur ELESB dcts	1	1	1	. 1	1
% occur 2+ EL dcts	•	4	j s	2	4
AVG station N	335	342	334	328	336
AVG station -N/Kft	26	16	21	22	2ช
AVG afe would its	11 12 11	1 11 11 11	11 11 11	14 14 14	10 11 11

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 25 88 \$ 75 00 H (*) INDICATES INSUFFICIENT DATA

Radiosonde source: 85442 23 25 S 70 28 H Radiosonde station height: 400 Feet

Surface obs source: MS379 25 88 S 75 88 N

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FER	4. EUI 4	ULCURRENCE	OF E	mnze	rer.	JURF	n, c, -	, 0 - 5	JE E DI	, E F	IDITE	E 311		V1111	<u> </u>		
	FRE	PUENCY	Y	EARL'	Y	J	AN-M	AR	A	PR-J	JN	Ji	JL-SI	EP	O	CT-DI	EC
1			day	nit	d&n	day	nıt	d&n	day	nit	d&n	day	nit	din	day	nit	d&n
\Box	100	HHz	1	1	1	1	1	1	:	0	1		Ø	1	9	0	8
1	1	GHz	26	13	19	33	28	26	21	9	15	18	6	12	32	16	24
1	3	GH2	; 30	17	24	38	26	32	25	13	19	22	. 9	15	36	28	28
	6	GHz	49	36	43	62	54	58	43	38	37	40	24	32	51	36	44
1	19	GHz	78	73	75	87	83	85	78	73	76	70	64	67	75	73	74
	28	GHz	88	38	88	93	92	93	99	87	89	83	83	83	86	87	86

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	ARL'	Y	J	AN-H	AR	RI	PR-J	UN	31	JL-SE	P	O	CT-DI	EC
	day	nit	den	day	nit	dŧn	day	nit	dân	day	nit	dŁn	day	nit	d£n
Percent occurrence	7	5	6	9	8	9	6	3	5	7	4	6	4	3	4
AYG thickness Kft	l		.30	i		.32			.26	l		.26	ı		.36
AVG trap freq GHz	i		.94	i		. 64	1		.81	ļ .		1.3	ļ		1.1
AVG lyr grd -N/Kft	l		136	j		116			128	l		129			170

ELEVATED DUCT SUMMARY:

PARAMETER	Y	ARL'	r	J	N-K	AR .	A	PR-JI	JH	Jt	JL-SE	EΡ	00	CT-DE	C
İ	day	nıt	dtn	day	nit	d&n	day	nit	d&n	day	nit	dŧn	day	nit	d&n
Percent occurrence	46	56	51	36	50	43	51	57	54	47	62	55	59	53	52
AVG top ht Kft			3.5	l		4.2	1		3.2	1		2.9			3.5
AVG thickness Kft			.78			.63	<u> </u>		.80	i		.86			-82
AVG trap freq GHz			.12			.19			.11			.08			.10
AVS lyr grd -H/Kft			78	l		63	l		73	l		96			88
AVG lyr base Kft	L		3.8	L		3.7	ł		2.7	<u> </u>		2.5			3.1

EVAPARATION THAT HISTOGRAM IN PERCENT ACCURRENCE:

EAMLORMITON DOCT HE	3 1 U G R	nn j	M P	ERCEI	11 01	<u>, CORF</u>	ENCE	•							
PEPCENT OCCURRENCE	YE	ARLY	ī ,	31	าห-พ	R	AF	R-JI	JK .	31	JL-SE	P	00	T-DE	C
	day	nit	dan	day	nit	dżn	day	การ	d&n	day	nit	d&n	day	nıt	d&n
0 to 10 Feet	5	4	5	4	4	4	4	5	4	6	5	5	6	5	5
18 to 28 Feet	8	8	8	4	5	4	7	8	7	11	12	12	8	8	8
20 to 30 Feet	11	15	13	7	10	8	12	15	14	14	28	17	11	15	13
30 to 40 Feet	15	21	18	13	15	14	18	23	20	19	25	22	12	22	17
40 to 50 Feet	15	17	16	15	16	16	28	21	28	13	15	14	12	16	14
50 to 60 Feet	10	12	11	11	16	14	11	11	11	9	18	10	- 8	18	9
60 to 70 Feet	5	3	5	7	9	8	5	5	5	6	3	4	4	4	4
70 to 80 Feet	4	3	4	6	5	6	3	2	2	4	3	3	4	3	3
88 to 98 Feet	2	2	2	3	3	3	2	1	1	2	1_	_2	2	2	2
90 to 100 Feet	1	1	1	2	2	2	1	2	2	1	0	1	1	1	<u>1</u>
above 100 Feet	23	11	17	29	:6	22	18	8	13	15	5	10	31	14	23
Hean height Feet	73	54	63	84	66	75	65	50	57	59	42	50	83	58	78

PARAMETER	YEAR	LY] JF	111-111	R	AF	R-JU	JN .	J	JL-SE	EP	01	CT-DE	EC
L	day no	t d&n	day	nit	d&n	day	กเเ	den	day	nit	dŁn	day	nıt	d\$n
% occur EL&SB dcts		1	1		i	1		1			1			1
% occur 2+ EL dcts	l	4	l		4	1		5			2			4
AVG station N	!	335			342	ĺ		334	ļ		328	i		336
AVG station -N/Kft	l	20	İ		16	l		2:			22	l		26
AUG afc wind Kts	11 1	2 11	11	11	11	11	11	11	14	14	14	10	11	11

IREPS REV 2.1

HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 27 10 S 109 25 N (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 85469 27 10 S 109 25 H

Radiosonde station height: 135 Feet Surface obs source: MS309 5 00 S 95 00 H

PERCENT (JCCORPENCE	UF E	HHHI	CFD :	<u>SUKFI</u>	HCE-	1 U-51	UKFH	E KI	HNHK.	LSI	<u>/נטח</u>	KHN	PF2:		
FRE	DUENCY	YI	ARL'	Y	31	AN-H	RR -	AI	PR-JI	ÜĤ	ä	UL-S	EP	Ō	CT-D	EC
L		day	nit	dŁn	day	nit	dtn	day	nit	dŁn	day	nit	d&n	day	nit	din
100	HHZ	1	Ø	9	2	- 0	1	1	- 9	0	8	1	Ð	9	1	- 0
1	GHz	31	11	21	34	10	22	38	13	26	24	8	16	27	11	19
3	GHz	39	_15	27	41	14	27	49	18	34	33	_13	23	33	15	24
6	GHz	62	42	52	61	38	50	73	51	62	58	41	49	54	38	45
18	GHz	83	76	79	82	72	77	88	88	84	82	75	78	79	??	78
29	GHz	98	89	90	91	86	_88	92	98	91	90	88	89	88	98	89

	SURFACE BASED DUCT	SUMMERY:												
	PARAMETER	YERRLY	Ţ	JAN-N	1R	AS	R-JI	ИL	J	UL-SI	EP	01	CT-DI	EC
1		day nit dt	n j da	y nit	dån	day	nit	d £ n	day	nit	d&n	day	nit	<u>dtn</u>
į	Percent occurrence	5 3	4 1	7 8	9	3	1	2	8	ε	3	0	5	3
	AVG thickness Kft] .3	7]		.37	ļ		.24)		.35	1		.52
ı	AYG trap freq GHz] 1.	ı)		1.8	{		.54	i		1.0	ļ		.91
ì	AVG lyr grd -N/Kft	18	5		155			138			261	i		189

ELEVATED DUCT SUMMAI	?Y:														
PARAMETER	Y	ARL'	7	3	คห-หเ	AR _	AI	PR-J	าห	3	JL-SI	EP	ō	CT-DI	EC
	day	nit	džn	day	nit	din	day	nit	din	day	nit	dan	day	nit	<u>dŧn</u>
Percent occurrence	52	61	57	46	67	57	53	55	54	68	58	59	49	64	57
AYG top ht Kft	[6.7	İ		7.7	•		6.4	ĺ		6.0			6.8
AVG thickness Kft	i		.48			.44	L		.48			52	l		.49
AVG trap freq SHz		_	.30			.36	1		.26	Γ		.26			.38
AVG lyr grd -N/Kft	l		63			60			67	Į.		61	1		53
AVG lyr base Kft	<u> </u>		6.4			7.4	L.,		6.1	<u> </u>	_	5.6	<u> </u>		6.5

EVAPORATION DUCT FISTOGRAM IN PERCENT OCCURRENCE:

PERCE	₹T	OCCI	IRRENCE	ΥĮ	EARLY	7	3	คท-หเ	1R	A	R-J	JH	J	JL-SI	EP	0	CT-DI	EC
				day	nit	dan	day	nit	dan	day	nit	dŁn	day	nıt	dån	day	nit	d&n
9 1	10	10	Feet	5	5	5	5	5	5	5	5	- 5	5	6	-5	5	5	5
10 1	l o	28	Feet	5	7	€	6	9	8	4	6	5	5	7	6	7	?	7
20 1	t c	38	Feet	8	13	_11	11	14	12	4	11	7	8	14	_11	9	14	12
38 1	i o	40	Feet	11	17	14	12	16	14	ε	13	19	12	18	15	13	20	16
49 1	to	58	Feet	11	18	14	11	17	14	8	16	12	13	18	15	12	21	16
59 1	to	60	Feet	10	14	12	18	13	12	9	14	12	10	14	12	11	13	12
60 1	6	70	Feet	7	9	- 8	6	8	7	8	11	10	8	9	9	7	7	7
79 1	to	88	Feet	6	5	5	5	4	4	8	7	7	6	6	6	4	4	4
26 1	t o	98	Feet	5	2	4	<u> </u> 3	2	_2	_6	4	5	_6	_ 2	4	_ 3	2	2
90 1	60	10€	Feet	3	1	2	2	1	2	4	2	3	4	1	2	2	1	2
abov	ve	100	Feet	29	9	19	29	10	20	37	12	25	24	6	15	27	9	18
Hean	he	ight	Feet	84	53	_68	83	53	- 68	96	60	78	76	48	_62	80	51	66

GENERAL DE LEUPOCOGI	SUDDAK				
PARAMETER	YERRLY	JAN-HAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day net dan	day nit din	day nit den	day nit din
% occur ELLSB dcts	2	3	1	4	2
% occur 2+ EL dcts	9	9	11	5	13
RVG station N	346	352	346	339	348
AVG station -H/Kft	14	16	14	13	15
AVG sfc wind Kts	11 19 11	9.3 8.3 9.1	12 11 11	13 12 12	18 18 18

Specified location:

134 52 H

23 86 S 23 06 S 134 52 H

Radiosonde source : 91948 Radiosonde station height:

33 Feet

Surface obs source: MS14 5 88 H 135 99 H

	OF E	<u>инни</u>	ED:		HUE-										
FREQUENCY	Y	ARL'	ľ	J1	AN-MI	R.	HI.	PR-JI	JH	J	ひレーち	EP	1 0	CT-DI	EC
	day	nıt	dan	day	nit	d£n	day	nit	d&n	day	nit	dan	day	nit	d&n
100 HHz	1	0	θ	1	9	Θ	1	9	0	*	+	*	1	•	1
1 GHz	31	4	17	28	5	16	38	3	16		#	+	34	4	19
3 GHz	40	. 8	24	38	9	23	38	7	22		*	+	45	8	_ 26_
6 GHz	72	49	61	72	53	62	69	46	57	+	*	÷	75	49	62
10 GHz	98	87	88	91	87	89	88	85	87	+	#	*	91	88	89
20 GHz	96	95	95	96	95	95	95	94	94	*	*	÷	97	96	96

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(*) INDICATES INSUFFICIENT DATA

CHIPEOCE DOCED BUCT CHREEDY.

PARAMETER	Y	ARL'	Y	J	AH-M	AR.	A	R-J	JH	JI	JL-SI	ΕP	00	CT-DI	EC
	day	nit	d&n	day	nit	d&n	day	nit	ರಹಿಗ	day	nit	dŁn	day	nit	dŁn
Percent occurrence	6	8	3	9	9	5	4	9	2	8	9	8	9	0	- 5
AVG thickness Kft	l		. 48	j		. 35	1		. 45	•			i		. 49
AVG trap freg GHz	1		1.7	l		3.5	i		1.0			#			.65
AVG lyn grd -N/Kft		_	159	1		119			193	i		*			164

ELEVATED BUCT CHREADY.

PARAMETER	Y	ERRL	· -	J	AH-Hi	ir.	AF	R-J	Ж	JU	JL-SI	EP	CI	CT-DI	EC
	day	nit	<u>d&</u> n	day	nit	dån	day	nit	din	day	nit	d&n	day	nit	d2n
Parcent occurrence	21	9	11	18	0	9	24	8	12	23	0	12	19	0	10
AVG top ht Kft			6.5			6.3	•		6.2	ĺ		5.9	1		7.6
AVG thickness Kft			.42			.43			.35	L		.46	L		. 45
AVG trap freq GHz			.50	ĺ		. 45			.76			.37	_		.48
AVG lyr grd -N/Kft	ĺ		58	i		57	1		54	l		59	İ		52
AVG tyr base Kft	L		6.2	<u> </u>		5.9	l		5.9	İ		5.5	1		7.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCUR	RENCE	YE	ARLY	7	J1	AH-M	1R	A:	PR-J	JN	JI	JL-SI	EP	00	T-DE	С
L			day	nit	den	day	กเร	dan	day	nit	d&n	day	nit	den	day	nit	d&n
8 10	10 F	eet	3	1	2	3	1	2	3	2	2	3	1	2	3	1	2
10 to	20 F	eet	2	3	3	2	3	3	3	5	4	2	3	2	1	3	2
28 10	30 F	eet	6	7	7	_6	- 8	7	7	8	7	5	5	5	6_	8	7
30 to	40 F	eet	8	15	12	7	15	11	9	16	13	7	14	11	8	16	12
40 10	58 F	eel	11	21	15	13	18	16	11	24	17	9	19	14	19	22	16
_50 * c	68 F	441	12	22	17	15	24	13	13	22	17	18	21	16	12	21	16
60 to	70 F	eet	11	13	12	12	14	13	11	18	11	18	15	12	10	13	11
78 to	80 F	eet	9	7	8	j 9	7	8	8	6	7	8	9	8	18	8	9
88 10	98 F	ee:	6	3	_5	6	3	4	5	3	4	7	4	5	7	2	5
98 to	108 F	eet	3	1	2	1	1	2	2	1	2	4	1	2	4	1	2
above	130 F	eet	30	5	18	26	5	15	28	3	16	37	8	22	30	4	17
Mean he	ght	Feet	89	55	72	82	55	68	87	50	69	98	68	79	89	54	71

PARAMETER	Y	EARL'	7	J£	178-MI	38	AF	R-J	И	Jŧ	リレーSI	EP	00	CT-DE	C
	day	nit	den	dau	nit	din	day	nıt	d&n	day	nit	d&n	day	nit	den
% occur EL&SB dcts			9			1			0			0			1
% occur 2+ EL dcts	l		1			2	1		8	Į.		8			1
AVG station H			367			383	i .		366	1		351			368
AVG station -H/Kft			17			20	l		16	ļ .		15	1		18
AUG see wind res	14	13	:3	15	15	15	13	12	13	13	12	12	13	13	13

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

(*) INDICATES INSUFFICIENT DATA

Specified location: 27 37 S 144 19 H Radiosonde source: 91958 27 37 S 144 19 H

Radiosonde station height: 3 Feet Surface obs source: HS15 5 08 H 145 00 H

PEDCENT OCCUPPENCE OF ENHANCED SUPFACE-TO-SUPFACE PARRY/FSM/COM PANCES:

PERCENT OFFORKENCE	UF E	MANA	CED	SURF	<u>n, e - </u>	10-3	UKFRI	C KI	אחעה	ESH	<u>, Cou</u>	KUU	9E3.		
FREQUENCY	Y	EARL	Y	J	AN-HI	AR	- AF	R-J	אט	J	UL-SI	ĒΡ	G	CT-DI	EC
l	day	nit	d&n	day	nit	<u>d£n</u>	day	nit	din	day	nit	dŁn	day	nit	₫&n
180 MHz	9	0	- 0	1	8	8	0	0	8	0	- 0	8	8	0	9
1 GHz	26	5	16	23	5	14	23	4	14	33	7	20	26	6	16
3 GHz	38	11	24	36	_ 9	22	33	11	22	43	14	28	46	_ 11	25
6 GHz	72	55	64	71	55	63	68	53	61	74	57	65	74	56	65
10 GHz	91	88	98	91	88	89	89	98	98	92	86	85	94	88	91
20 GHz	96	96	96	96	96	96	96	97	97	96	95	96	97	95	96

SUPFRIE BUSED DOCT	<u>וחתט </u>	HRY:													
PARAMETER	Y	EARL'	¥	J	คม−ฅเ	RR	. Ai	R-JI	JH	J	JL-SE	EP -	0	CT-DI	EC
	day	nit	d&n	day	nit	d&n	day	nit	dân	day	nit	dun	day	nit	d&n
Percent occurrence	4	0	2	6	9	3	3	8	2	2	8	1	3	9	2
AVG thickness Kft			.42			.51	i		.28	1		.54	ļ		.37
RYG trap freq GHz	İ		1.2	1		.76			1.9			.52	1		1.5
AVG lyr grd -N/Kft			212	<u> </u>		143			294	<u> </u>		178	L		243

ELEVATED DUCT SURHARY:

PARAMETER	Ÿ	ERRL	7	J	AH-M	AR	AI	R-JI	JN	Jį	JL-SE	ΕP	01	CT-DI	EC
	day	nit	dŁn	day	nit	dŁn	day	nit	din	day	nit	dån	day	nit	dŁn
Percent occurrence	21	- 6	1:	18	9	9	24	9	12	22	8	11	21	8	11
AVG top ht Kft			5.5	Į.		5.4	i		5.7	1		5.3	l		5.5
AVG thickness Kft		_	. 51			.59	[_	.48	Ĺ	_	.51	Ĺ		.46
AVG trap freq GHz			.35			.32			.39	Ţ		.26	Г		.43
AVG lyr grd -N/Kft			58	l		56	1		59	ĺ		61	l		56
AVG lyr base Kft			5.1	l		5.0	l		5.3	[_		4.9	Í	_	5. i

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE.

EANLOWHITON DOCI WI	3 · UUI	rnn .	LTE	ENUE	11 01	<u> CURI</u>	RACE								
PERCENT OCCURRENCE	YI	ERRL'	Y	3	BK-WI	R	AF	-J	JN	ï	JL-SI	Ρ	ő	CT-DE	EC
	day	nit	d&n	day	nit	dan	day	nit	din.	day	nit	din	day	nit	d&n
0 to 10 Feet	2	1	2	3	1	2	2	1	1	2	1	1	2	2	2
10 to 20 Feet	2	3	2	2	2	2	3	2	2	2	4	3	Į i	2	2
29 to 38 Feet	5	. 8	6	6	8	7	7	6	7	4	9	7	3	7	5
30 to 40 Feet	8	12	10	9	13	11	8	16	12	8	11	9	8	11	- 9
40 to 50 Feet	12	28	16	11	20	16	13	22	17	11	18	15	12	21	17
50 to 60 Feet	14	28	17	15	21	18	13	19	16	13	18	15	13	21	17
60 to 70 Feet	12	15	14	10	16	13	13	15	14	11	15	13	14	16	15
78 to 80 Feet	9	9	9	11	10	10	9	9	9	8	16	9	8	9	9
30 to 90 Feet_	7	4	6	3_	3	6	6	5	6	6	_ 5	5	_ 8	4	6
98 to 188 Feet	4	2	3	5	1	3	3	2	3	4	2	3	6	1	4
above 100 Feet	25	5	15	20	5	12	23	4	13	32	7	19	25	6	15
Hean height Feet	84	57	70	77	55	66	80	55	68	93	59	7€	86	57	71

PARAMETER	YER	8LY	J.F	AM-MA	R	AP	R-JI	H	JU	L-SE	P	30	T-D:	C
	day n	it din	day	ni:	dtn.	day	nit	37 10	day	nit	dŧn	day	nit	d&n
% occur EL&SB dcts		1			2			9	i		9			1
% occur 2+ EL dcts		1	}		1			1			8	i		0
AVG station H		335			372 j			352			342			353
AVG station -H/Kft		15	i		16			14			13	1		15
AVG sfc wind Kts	15	14 14	17	16	16	14	14	14	12	11	12	15	14	14

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(*) INDICATES INSUFFICIENT DATA 159 49 ki Specified location: 21 12 S Radiosonde source : 91843 21 12 S 159 49 H

Radiosonde station height: 23 Feet Surface cbs source: MS317 5 00 S 175 88 H

DEDCENT OCCUPRENCE OF ENHANCED SUBSOCE_TO_SUBSOCE DARROVESN/COM PANCES*

		HILLIAN			_				IDNK-						
FREQUENCY	ĮΥ	ERRL'	Y	j 3:	an-H	RR	l Ai	PR-JU	JN	Ji	リレーS!	EP .	J 08	CT-DE	EC
	day	nit	din	day	nit	dan	day	nit	d&n	day	nit	dŧn	day	ni t	dan
100 MHz	6	2	4	+	+	#	7	3	5	3	2	3	8	9	4
1 GHz	49	19	34	*	ŧ	#	59	20	35	45	25	35	54	11	32
3_GHz	61	28	44	_ ∗ .	#	*	52	29	45	57	34	45	64	28	42
6 GHz	82	65	73		*	*	81	63	72	82	78	76	83	62	73
10 GHz	93	88	91	*	¥	*	93	87	98	93	90	91	93	87	93
28 GHz	97	95	96		+	+	97	95	96	97	95	96	96	95	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	ARL	7	J	คห-พค	38	8	K-J1	JH	31	JL-SE	P	01	T-DE	:C
L	day	nit	din	day	nit	d&n	day	nit	dan	day	nit	dŁn	day	nıt	dan
Percent occurrence	33	11	22	T +	*	*	45	28	33	18	14	16	36	0	18
AVG thickness Kit			.38	1		+			.28	ĺ		.43			.41
AVG trap freq GHz	ł		.48	i		*	i		. 53			.56	l		.30
AVG lyr grd -N/Kft	L		89	L		*			97			93	Ĺ		76

ELEVATED DUCT SUMMARY:

PARAHETER	Y	ERRL	7	J	ลห-ถ	AR	AI	PR-31	JN	31	JL-SI	EP .	0	CT-D!	EG.
	day	nit	dan	day	nit	din	day	nit	den	day	niţ	d&n	day	nit	dan
Percent occurrence	44	36	40	*	*	+	69	52	61	41	46	44	31	9	16
AYG top ht Kft			5.6	ĺ		*			5.6	1		5.5	Į		5.7
AVG thickness Kft	L		.59	Ĺ _		-	L		.81	L		.59	Ĺ		.38
AYG trap freq GHz			.37			+			.11			.30			.71
AVG lyr grd -N/Kft	İ		67	ĺ			ļ		71			71	1		59
RVG lyr base Kft	Ĺ.		5.2	Ĺ			Í		5.1	i		5.2			5.4

EVAPORATION DUCT HISTOGRAM IN PEPCENT OCCURRENCE:

PERCENT OCCU	RRENCE	YE	ARL'	7	J:	H-HI	łk:	AF	R-J	JH.	J	JL-SE	Ρ	00	Y-DE	C
		day	nit	din	Day	nit	din	day	ពរ។	dan	day	nit	din	day	nit	dkn
0 to 19	Feet	3	_ 5	2	3	2	2	2	1	2	2	2	2	3	1	2
10 to 20	Feet	3	4	3	3	4	3	4	5	4	2	3	3	2	4	3
20 to 30	Feet	5	8	6	4	6	5	_6	19	8	4	7	5	_ 5	8	_ 7
30 to 40	Feet	7	:0	8	7	9	8	8	12	10	6	9	7	7	11	9
40 to 58	Feet	10	15	13	11	17	14	13	17	15	១	14	11	9	14	11
50 10 60	Feet	12	15	15	13	17	15	12	18	15	10	18	14	11	18	15
60 to 78	Feet	5	13	11	و	13	11	3	13	11	9	12	11	8	13	12
78 to 88	Feet	8	10	è	9	18	9	7	5	8	19	10	10	8	11	18
86 to 98	Feet	6	_5	5	6	6	6	6	5	5	7	5	6	6	6	6
90 to 100	Feet	4	3	3	Ţ <u> </u>	3	3	4	2	3	5	3		5	3	4
above 188	Feet	34	12	23	34	13	24	38	8	19	38	17	28	35	11	23
Hean height	Feet	94	66	83	94	68	81	88	66	74	99	72	96	95	64	79

PARAHETER	YERRLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day not 18n	day nit din	day nit dan	day nit dan	day nit skn
% occur EL&SB dcts	6	9	7	4	12
1 occur 2+ EL dcts	1	8	1	4	8
AVG station H	364	*	354	361	378
AVG station -H/Kft	18	*	16	17	20
AVG sfc wind Kts	10 9.0 9.4	:1 10 10	8.5 8.3 8.4	18 9.4 18	10 8.8 9.2

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

29 15 S 177 55 H 29 15 S 177 55 H (*) INDICATES INSUFFICIENT DATA Specified location:

Radiosonde source : 93997

Radiosonde station height: 151 Feet Surface obs source: MS426 35 00 S 175 00 E

FOROUTHEY I VEGULA I TON MOD I COD	
PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE	RADAR/FSH/COM RANGES:

FREQUENCY	Y	EARL'	Υ	31	AH-M	R	RI	R-J:	JH T	J(JL-SI	EP T	Ö	CT-DI	EC
	day	nit	din	day	nit	din	day	nit	din	day	nit	din	day	nit	dŁn
100 MHz	1	0	0	1	- 8	1	Ð	. 6	8	1	θ	0	1	9	1
1 GHz	19	6	13	25	9	17	16	7	11	15	4	10	22	6	14
3 GHz	25	_ 8	16	31	11	21	22	_ 9	16	19	5_	12	27	7	_17
6 GH≥	45	25	35	51	30	48	46	31	39	38	28	29	44	21	33
10 GHz	68	57	63	71	59	65	70	62	66	66	55	61	66	51	58
20 GHz	78	71	75	89	72	76	89	73	77	78	73	75	76	66	71

SURFACE BUSED DOCI	<u> </u>	nr.i.													
PARAMETER	Y	EARL'	Y	7	AH-H	RR	A	PR-JI	JH	3	uL-SI	EP	Ō	CT-DI	EC
	day	nit	dŁn	day	nit	din	day	nit	din	day	การ	din	day	nit	den
Percent occurrence	6	- 8	3	8	- 0	4	4	- 8	2	- 5	- 0	3	6		3
AVG thickness Kft	ĺ		.35	İ		.29	İ		.33			.37	ļ		.39
AVG trap freq GHz	1		.68	i		.64			1.1	ļ		.52	Į .		.46
AVG lyr grd -N/Kft	Ĺ.,		105			185			126			88	l		99

ELEVATED DUCT SUMMAN	(Y;														
PARAMETER	Y	EARL'	Y	7	H-NA	AR	Al	PR-J	บห	J	UL-S	EP	0	CT-D	EC
	day	nit	din	day	nit	din	day	nit	dŁn	day	nit	din	day	nit	dŁn
Percent occurrence	22	4	13	27	8	14	20	6	10	15	- 0	8	25	14	20
AVG top ht Kft			5.6	i		5.9	l		5.6	ļ		5.5	ļ.		5.3
AVG thickness Kft			.41	_		.50			38	l		.38	<u>L</u>		.39
AVG trap freq GHz			.48			.34			.52			.61			.47
RVG tyr grd -H/Kft			58			59	1		58	ŀ		58	Į		58
AVG lyr base kit			5.2			5.5	L		5.3	[5.2	<u> </u>		5.9

E-APORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT GCCURRENCE	Y	EARL'	Y	J	AN-K	AR	A	PR-J	UH	J	UL-SI	EP .	01	CT-DI	EC
	day	nit	din	day	nit	a\$n	day	nit	dŁn	day	nit	din	day	nit	ರಹಿಗ
8 to 15 Feet	16	19	17	17	20	19	15	19	17	14	15	14	17	20	19
10 to 20 Fest	7	10	9	6	8	7	5	8	7	10	12	11	8	13	10
20 to 30 Feet	11	14	12	9	12	11	11	11	11	12	18	15	11	15	13
38 to 48 Feet	12	17	15	11	16	13	13	15	14	15	19	17	11	17	14
40 to 58 Feet	12	15	13	11	14	12	12	16	14	14	16	15	12	12	12
58 to 68 Fret	<u> 9</u>	_ 10	10	9	11	10	10	_ 12	_ 11	10	19	10	9	8	9
60 to 79 Feat	12	5	-6	7	- 5	6	9	- 6	8	6		5	6	3	5
78 to 88 Feet	4	3	4	5	3	4	6	4	5	4	2	3	3	2	3
98 to 99 Feet]3	_ 1	_ 2	3	1	2	4	1	3	_ 2	9	1	_ 2	1	1
99 to 189 Feet	2	1	1	2	:	2	2	1	2	1	- 6	1	2	8	1
above 100 Feet	16	6	11	21	9	15	14	7	10	12	4	8	19	6	13
Mean height feet	59	41	50	65	44	55	57	43	58	52	37	44	61	38	58

PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
<u> </u>	day nit dan	day nit din	day nit dan	day nit din	day nit din
% occur EL&SB dcts	2	3	2	1	1
% occur 2+ EL dcts	1	! 8	1	1	1
AVG station H	351	363	349	342	359
AVG station -N/Kft	17	18	17	16	17
AVG sfc wind Kts	1 15 14 14	13 12 13	16 15 16	16 15 16	14 13 13

Specified location: 29 03 S 167 55 E Radiosonde source: 94996 29 03 S 167 55 E

Radiosonde station height: 358 Feet Surface obs source: NS391 25 00 S 165 00 E

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	Y	EARL	Y	J	AN-M	AR	R	PR-J	JH	Ji	JL-SI	EP	01	CT-DI	EC
	day	nit	d&n	day	nit	d£n	day	nit	d&n	day	nit	d&n	day	nit	d&n
180 MHz	1	1	1	1	6	0	1	9	9	1	0	9	1	3	2
1 GHz	32	11	21	32	9	20	30	8	19	28	6	17	38	21	29
3 GHz	44	18	31	45	17	_ 31	44	14	29	38	10	24	47	_32	40
6 GHz	75	58	66	76	59	67	76	60	68	73	58	61	75	61	63
18 GHz	89	86	88	89	88	88	89	87	88	89	83	86	98	87	89
_20 GHz	94	94	94	93	93	93	93	94	94	94	93	93	94	94	94

(*) INDICATES INSUFFICIENT DATA

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SURFACE BASED DUCT SUMMARY:

PARAMETER	۲	EARL	Υ	J	8H-H	AR	RI	PR-J	אט	J	UL-SI	EP	01	CT-D	EC
	day	nit	d&n	day	nit	dŁn	day	nit	dŁn	day	nit	dŁn	day	nit	dan
Percent occurrence	8	8	8	8	0	4	8	9	4	7	8	4	10	33	22
AVG thickness Kft			. 26	i		. 25	i		.29	ì		. 27	l		.24
AVG trap freq GHz	1		1.3	l		1.4	i		1.0	ļ		1.0	1		1.7
AVG lyr grd -N/Kft	l		124	i		196	i		97			157	1		135

ELEVATED BUCT SUMMARY:

PARAMETER	Y	EARL'	Y	3	AN-M	1R	Al	R-J	UN	Jŧ	JL-SI	7	0	CT-DE	C
	day	nit	dŁn	day	nit	dŁn	day	nıt	d£n	day	nit	d&n	day	nit	đěn
Percent occurrence	23	9	11	31	9	16	19	8	18	15	0	8	2€	Θ	13
AVG top ht Kft			5.8			5.5			6.3	ļ		5.8			5.5
AVG thickness Kft			. 33	1		.39			.29	l		.28			.37
AVG trap freq GHz			.71			.44			.69			1.2			.49
AYG lyr and -N/Kft	i		69	ł		62	l		63	i		57			58
AVG lyr base Kft	1		5.5	l		5.2	İ		6.1	Į		5.6			5.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT C	CCURF	ENCE	YE	ARL	7	J	ค.พ-พเ	AR.	AI	アーフィ	Й	7	JL-SI	P	00	T-DE	C
			day	nit	dan	day	nıt	d&n	day	nit	d&n	day	nıt	dan	day	nıt	din
0 to 1	10 Fe	et	4	3	4	5	4	4	4	2	3	4	3	3	5	3	4
10 to 2	20 F€	et	2	4	3	2	3	3	2	4	3	2	4	3	2	5	4
28 to 3	30 Fe	et	5	_ 8	6	5	5	_ 5	_ 5	. 8	6	5	10	7	4	10	7
30 to 4	10 Fe	et	6	13	9	5	18	8	5	11	8	7	14	11	7	16	11
40 to 5	50 F∈	et	9	18	14	9	19	14	9	16	12	10	29	15	10	18	14
<u>50 to 6</u>	50 F∢	et	11	18	15	11	17	14	10	19	14	14	20	_17	19	_16	13
60 to 7	70 Fe	et	11	13	12	11	13	12	13	16	14	12	13	12	10	11	10
78 to 8	30 Fe	e:	10	9	16	10	12	11	11	12	11	10	7	8	9	7	8
80 10 9	98 Fe	et	7	4	5	8	_ 5	7	8	5	6	L 6	3	4	5	4	5
98 to 1	100 Fe	et :	5	2	3	5	3	4	7	1	4	4	1	3	4	2	3
above 1	100 Fe	et	29	8	19	29	9	19	27	8	17	25	6	16	35	9	22
Rean her	ght F	ezt	88	58	73	87	62	75	86	59	73	83	55	69	96	57	76

PARAMETER	į Y	ERRL'	Y	J	AH-M	AR	คร	アーチリ	UN	Jŧ	JL-5	EP :	00	T-DE	EC
	day	nit	din	day	nit	d&n	day	กาะ	dan	day	nit	din	day	nit	dŧn
% occur ELESB dets			2			2			1			1			3
% occur 2+ EL dcts			2	1		4			1	1		1			2
AVG station H	İ		334	i		346			333	i		324	i		334
AVG station -H/Kft	ļ		15			16			15			13	1		15
AVG sfc uind Kis	14	13	14	15	15	15	15	13	14	14	13	13	12	12	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 22 16 S 166 27 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source: 91592 22 16 S 166 27 Radiosonde station height: 226 Feet

Surface obs source: MS391 25 00 S 165 00 E

DEDICAL OCCUPATION OF ENHANCED SUPERICE TO SUPERICE DATABLESM COM DENCES

5056		1		-		211 24	-						==	-		
FREU	PUENCY) YE	EARL'	r	j Ji	RH-HI	NK .	l H	PR-J!	אט	J 31	リレーS!	E۲	וט ו	CT-DI	EC.
		day	nit	dŧn	day	nit	din	day	nit	dŁn	day	nit	d&n	day	nit	din
160	NHz	1	0	6	1	8	1	8	0	8	0	9	8	1	8	6
1	GHz	31	8	19	32	9	21	28	8	18	26	6	16	37	9	23
. 3	GHz	43	14	28	46	17	32	43	14	28	36	10	23	46	16	31
6	GHz	74	55	64	76	59	68	75	60	6?	72	50	61	74	49	62
10	GHz	89	85	87	89	88	88	89	87	88	89	83	85	98	83	36
28	GHz	93	93	93	93	93	93	93	94	94	93	93	93	94	92	93

SURFACE BASED DUCT SUMMARY:

0011 1100 Dillotto DOCT 1															
PARAMETER	Y	EARL'	Υ	J	คห-หเ	RR	AI	R-JI	JH .	3	リレーシリ	EP	-00	CT-DI	EC
	day	nit	dŁn	day	<u>nit</u>	d&n	day	nit	dan	day	nit	dŁn	day	nit	d&n
Percent occurrence	6	- 0	3	10	9	5	4	8	2	2	. 9	1	6	0	3
AVG thickness Kft	ŀ		.18	ĺ		. 20	ĺ		. 19			.14	(.19
AVG trap freq GHz	i		1.7	l		1.5	i		1.7			1.9	Į .		1.5
AVG lyr grd -N/Kft			172			155	ĺ		185	I_		200	.		149

FLEVATED DUCT SUMMARY:

PARAHETER	Y	ERRL'	Y	J	AH-MI	ar .	- A1	R-JI	HU	J	JL-SI	EP -	-00	CT-DI	C
	day	nit	d&n	day	nit	d&n	day	nit	dŁn	day	nit	dån	day	nit	d&n
Percent occurrence	29	0	15	23	8	12	27	6	14	33	8	17	33	8	17
AVG top ht Kft	İ		5.7			5.7			5.7			5.8	l		5.4
AVG thickness Kft	Ł		.54	į		.62	İ		.48	Į.		.52	i		.53
AVG trap freq GHz			.39			.23			.39			.28			.29
AVG lyr grd -N/Kft			58			61	i		56	!		58	i		57
AVG lyr base Kft	ľ		5.3	•		5.3	i		5.3	i		5.4	İ		5.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCURRENCE	Y	ARL	Y	J	AN-M	AR	R!	PR-J	UN	J	UL-S	EP .	00	CT-DE	C
		day	nit	din	day	nit	<u>d</u> ån	day	nit	dŁn	day	nit	dŧn	day	nit	dŁn
0 to	10 Feet	4	3	4	5	4	4	4	2	3	4	3	3	5	3	4
18 to	28 Feet	2	4	3	2	3	3	2	4	3	2	4	3	2	5	4
20 to	38 Feet	5	8	6	5	5	5	5	8	_6	_ 5	10	7	4	10	7
30 to	46 Feet	6	13	_ 9	5	10	8	5	11	8	7	14	11	7	16	11
48 to	50 Feet	9	18	14	9	19	14	9	16	12	10	26	15	10	18	14
50 tc	68 Feet	11	18	15	11	17	14	10	19	14	14	28	17	10	16	13
60 to	70 Feet	11	13	12	11	13	12	13	16	14	12	13	12	10	11	10
78 to	88 Feet	19	9	10	18	12	11	11	12	11	10	?	8	9	7	8
80_to	98 Feet	7	4	5	8	5	7	8	5	6	6	3	4	5	4	5
90 to	100 Feet	5	2	3	5	3	4	7	1	4	4	1	3	4	5	3
above	100 Feet	29	ક	19	29	9	19	27	8	17	25	6	16	35	9	22
Hean he	right Feet	88	58	73	87	62	75	86	59	73	83	55	69	96	57	76

GENERAL METEORGIAGY SUMMARY:

GENERAL DETEURGEOGT	SUMMER I :				
PARAMETER	YEARLY	JAN-HAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit din	day nit dan	day nit dan	day nit dan	day nit dan
% occur EL&SB dcts	1	2	1	9	2
% occur 2+ EL dcts	2	2	2	2	4
AVG station H	353	367	352	341	353
RVG station -N/Kft	15	16	15	13	15
AVG sfc wind Kts	14 13 14	15 15 15	15 13 14	14 13 13	12 12 12

7 Feet

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESH/COM PANGES:

Surface obs source: #S392 25 00 S 155 00 E

FREQUENCY	Y	EARL'	Y	Jı	AN-M	R	AI	R-JI	Ħ	JU	JL-SI	P	O	CT-DI	EC
	day	nıt	den	day	nit	d&n	day	nıt	dŁn	day	nit	dŁn	day	nıt	dŁn
180 MHz	1	1	1	1	0	1	1	2	2	1	8	9	1	Ð	8
1 GHz	34	11	22	38	16	24	28	15	22	26	7	17	41	11	26
3 GHz	47	21	34	53	22	37	45	30	38	38	15	26	53	19	36
6 GHz	80	64	72	80	67	74	82	75	79	75	58	67	81	57	69
10 GHz	93	89	91	93	89	91	95	93	94	92	87	90	92	86	89
20 GHz	96	95	96	96	95	95	98	97	97	96	95	95	95	93	94

SURFACE BASED DUCT SUMMARY:

Radiosonde station height:

PARAMETER	Y	EARL'	Y	Ji	AH-M	R T	A1	キーゴ	JH	Jŧ	JL-SI	EP =	01	CT-D!	EC
	day	nit	d&n	day	nit	dan	day	nıt	dån	day	nit	dan	day	nit	d&n
Percent occurrence	8	4	6	7	0	4	10	17	14	6	θ	3	7	8	4
AVG thickness Kft	ļ		.32			.48			.32			.23	l		. 24
AVG trap freq GHz			1.0	i		.60			1.0			1.7	ŀ		.76
AVG lyr grd -N/Kft	1		147			185			157	i		210	1		116

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	Ji	BH-M	R R	RE	R-JI	JH	Jt	JL-SI	EP :	00	CT-D	ΕC
	day	nit	dŁn	day	nit	d&n	day	nıı	din	day	nit	d&n	day	nit	den
Percent occurrence	17	13	15	26	22	24	12	17	15	7	0	4	23	14	19
AVG top ht Kft			5.7	ľ		6.4	i		6.1	l		5.3	l		5.1
AVG thickness Ift			. 31			. 35			.25	l		. 26	ļ		. 36
AVG trap freq GHz			1.0			.63			1.0			1.6			.63
AVG lyr grd -N/Kfs			57			55			58	l		58	İ		59
AVG lyr base Kft	ŀ		5.5	i		6.1	i		5.9	1		5.1	i		4.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OC	CURRENCE	į YI	EARLY	ſ	J	an-Mi	3F.	AF	`R-J(JH	Ji	JL-SE	١٩	06	CT-DE	EC.
		iday	nit	den	day	nit	dan	day	nit	d&n	day	nit	den	day	nıt	dan
0 to 10	Feet	2	2	2	3	2	2	1	1	1	1	2	1	3	3	3
18 to 28	Feet	2	3	3	2	3	2	1	3	2	2	3	3	2	4	3
20 to 30	Feet	_3	. 7	5	3	6	5	3	4	4	4	8	6	3	8	6
30 to 40	Feet	6	10	8	6	9	7	5	- 8	7	7	12	10	5	12	9
40 to 50	Feet	9	15	12	8	13	11	9	13	11	10	17	14	7	16	12
50 to 60	Feet	11	18	14	10	17	13	11	19	15	13	19	16	10	16	:3
60 to 70	Feet	12	15	14	10	15	13	14	17	16	15	14	15	11	13	12
70 to 80	Feet	11	12	11	9	13	11	14	14	14	11	16	11	9	9	9
80 to 90	Feet	8	5	7	9	7	8	10	9	18	7	5	6	6	5	6
98 to 18	8 Feet	5	4	5	6	4	5	7	4	6	4	3	4	5	3	4
above 18	8 Feet	31	9	28	36	10	23	24	7	16	24	7	15	39	11	25
Hean heig	ht Feet	93	63	78	98	65	81	85	64	75	25	66	72	193	63	83

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PARAMETER	YE	ARL	ř	JI	M-HR	AR	AF	ねーゴ	אט	JU	IL-SI	EP	01	CT-D	EC
	day	nıt	den	day	ntt	dån	day	nit	dir	day	nit	ರ‡೧	day	nit	dtn
% occur EL&SB dcts			2	i					2			8			2
% occur 2+ EL dcts			2	ļ		2	ł		1			1	l		4
AVG station N	į		339	1		353	l		337	ł		323	į		341
AVG station -N/Kft			15	i		16	l		15	1		14	Į .		15
AVG sfc wind Kis	14	13	13	16	15	15	15	13	14	13	12	13	12	12	12

IREPS REV 2.1

HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 23 51 S 151 16 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 94380 23 51 S 151 16 E

Radiosonde station height: 246 Feet Surface obs source: MS392 25 88 S 155 88 E

DEDCENT OCCUPATION OF ENGLISHED CHARACT TO CHARACT DONOR COM COM PONCES

PERCENT UCCURRENCE	UF E	инии	rën .	SURP	HLE-	10-21	UKFRI	<u> </u>	TUNK.	FOU	LUN	KHN	<u> </u>		
FREQUENCY	Y	EARL	Ϋ	J	HH-H	AR _	RI	R-JI	JN	J	JL-SI	EP	0	CT-DE	EC
	day	nit	d&n	day	nit	dŁn	day	nit	d&n	day	nit	dkn	day	nit	d&n
106 MHz	1	- 0			*	*	1	8	6	1	8	0	2	Ð	1
1 GHz	32	9	28	*			27	7	17	26	7	17	44	11	27
3 GHz	46	18	_ 32		. *	*	44	21	32	38	_15	26	55	19	37
6 GHz	88	62	71	*	*	*	82	71	76	75	58	67	82	57	70
10 GHz	93	88	91	*	*	*	95	92	94	92	87	98	93	86	89
20 GHz	97	95	96	*	*	*	98	96	97	96	95	95	96	93	95

SUPERCE RASED DUCT SUNMARY:

PARAMETER	YI	ERRL'	Y	J	RH-M	R	AF	R-J	UN	J	JL-SI	EP	01	CT-DI	ΕĈ
	day	nit	d£n	day	nit	dŁn	day	nit	dŁn	day	nit	d&n	day	nit	d&n
Percent occurrence	6	9	3	8	8	Ð	6	9	3	4	0	2	13	9	7
AVG thickness Kft	l		.35	ł		7	i		.46			.31	1		.27
AVG trap free GHz	l		.67			*			.76	ĺ		.55	1		.70
AVG lyr grd -N/Kft	<u>L</u>		158	l		•			103			101	<u> </u>		278

ELEVATED DUCT SUMMAR	?Y:														
PARAHETER	Y	EARL	7	J	คห-หเ	AR	A	PR-JI	אט	31	UL-SI	EP	0	CT-DI	EC
	day	nıt	dan	day	nit	dŁn	day	nit	d&n	day	nit	din	day	nit	d&n
Percent occurrence	23	- 0	11	21	8	11	31	9	16	11	8	- 6	27	0	14
AVG top ht Kft	ŀ		5.2	ĺ		4.8	1		5.8	1		4.2	•		5.9
AVG thickness Kft			.42			.51			.26	i		.39	L		.51
RYG trap fr .q GHz			.38	Г		.22			1.2			1.2			.91
AVG lyr grd -N/Kft			67	į		65	i		57	1		78	1		66
AVG lyr base Kft			4.9	l		4.5			5.6	L		4.0	<u></u>		5.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCC	URRENCE	YE	ARL	7	J	AN-M	R.	A	PR-J	JN	31	JL-SI	EP	00	T-DI	C
		day	nit	dŁn	day	ni <u>t</u>	dŁn	day	nit	d&n	day	nit	dŁn	day	nit	dŁn
8 to 18	Feet	2	2	2	3	2	2	1	1	1	1	2	1	3	3	_ 3
10 to 20	Feet	2	3	3	2	3	2	1	3	2	2	3	3	2	4	3
20 to 30	Feet	3	7	5	3	6	5	3	4	4	4	8	6	3	8	6
38 to 49	Feet	6	10	8	6	9	7	5	8	7	7	12	10	5	12	9
40 to 50	Feet	9	15	12	8	13	11	9	13	11	10	17	14	7	16	12
50 to 60	Feet	11	18	14	10	17	13	11	19	15	13	19	16	10	16	13
60 to 70	Feet	12	15	14	19	15	13	14	17	16	15	14	15	11	13	12
78 to 80	Feet	11	12	11	9	13	11	14	14	14	11	10	11	9	9	9
80 to 90	Feet	ខ	6	7	9	7	8	18	_ 9	10	_ 7	5	6	_ 6	5	6
98 to 188	Feet	5	4	5	6	4	5	7	4	6	4	3	4	5	3	4
above 100	Feet	31	9	20	36	16	23	24	7	16	24	7	16	39	11	25
Mean heigh	t Feet	93	63	78	98	65	81	85	64	75	85	60	72	183	63	83

PARAMETER	YI	EARL'	Y	Ji	AN-MA	ar .	A.F	P-Jl	JH	Ji	ルーち	P	00	CT-DE	EC
	day	nit	dan	day	nit	dŁn	day	nit	dån	day	nit	d£n	day	nit	d&n
% occur ELESB dcts			1			9			1			9			2
% occur 2+ EL dcts	1		1	1		8	ĺ		1			8			3
AVG station N	1		338			358			333			326			341
AVG station -N/Kft	l		15			15			14			15			17
AVG sfc wind Kts	14	13	13	16	15	15	15	13	14	13	12	13	12	12	12

(*) INDICATES INSUFFICIENT DATA 24 52 S 113 39 E Specified location: 24 52 S Radiosonde source : 94380 113 39 E

Radiosonde station height: 10 Feet

25 00 S 115 00 E Surface obs source: MS396

PERCENT OCCURRENCE	OF E	инан	CED :	<u>Surf</u>	SCE-	ro-si	<u>JRFA(</u>	CE RE	DAR!	ZESM	<u>/COM</u>	PAN	GES:		
FREQUENCY	Y	EARL'	Υ	J	<u>พ−ห</u>	R S	AI	PR-JU	JH	1	UL-SI	EΡ	0	CT-DI	EC
<u> </u>	day	nıt	_d&n	day	nıt	d&n	day	nit	d&n	day	nit	<u>d</u> &n	day	nit	d&n
100 MHz	2	0	1	4	- 0	2	1	8	1	1	9	9	3	9	2
1 GHz	37	15	26	43	14	28	36	28	28	27	13	28	41	12	27
3 GHz	49	23	36	53	22	38	49	32	41	40	20	_38	52	19	35
6 GHz	79	63	71	77	57	67	82	72	77	78	65	72	79	57	68
10 GHz	93	88	91	39	84	86	95	91	93	95	91	93	92	88	38
20 GHz	96	94	95	93	91	92	98	96	97	99	96	97	95	94	95

SUPERIE PASER BUST SUMMARY.

PARAMETER	Y	EARL'	Y	JI	HH-M	R.	RF	R-J(ИL	J	JL-SI	EP	e	CT-DI	EC
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	<u>d</u> &n
Percent occurrence	12	9	- 6	20	Ø	10	9	0	- 5	5	8	3	14	0	7
AYG thickness Kft	l		.48	i		.60	l		.40	į .		.32			- 59
AYG trap freq GHz	1		.61			.38	l		.65			1.2	ļ		.27
AVG lyr grd -N/Kft			115	i		95			112	<u> </u>		152	<u> </u>		101

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ELEVATED DUCT SUMMAN	₹¥:														
PARAMETER	Y	EARL'	Υ	J	AN-MA	₹R	RI	PR-JI	JN	J	JL-SE	P	01	CT-DI	EC
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	₫&n
Percent occurrence	34	9	17	37	Ð	19	27	0	14	25	0	13	46	9	23
AVG top ht Kft	Ī		3.9	l		2.4	i		5.4			5.5			2.2
AVG thickness Kft			.51	<u> </u>		.74			. 34	L		.37			.60
AVG trap freq GHz			.38			.17			.67			.48	1		.20
AVG lyr grd -N/Kft			59	1		61	l		55			58	1		62
AVG lyr base Kft			3.5	<u> </u>		1.9	L		5.1			5.3			1.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCUR	RENCE	YE	ARLY	7	J	AN-ME	R	AF	₹-J(JИ	31	UL-SI	P	O:	T-DE	C
		day	การ	dan	day	nit	d&n	day	nıt	d&n	day	nit	d&n	day	nit	den
0 to 10 F	eet	3	2	2	5	5	5	1	2	1	1	1	1	3	2	3
10' to 20 F	eet	2	3	2	3	4	4	1	2	2	1	3	2	2	3	2
20 to 38 F	eet	4	6	5	5	7	6	3	5	4	4	5	_ 4	4	7	_ 5
30 to 40 F	eet	6	10	8	ϵ	11	9	4	8	6	7	9	8	6	13	10
40 to 50 F	eet	9	15	12	9	16	12	9	11	10	11	17	14	9	17	13
50 to 60 F	cet	12	17	14	11	16	13	12	13	13	14	20	17	11	17	14
60 to 70 F	eet	12	14	13	9	12	11	13	15	14	15	16	15	11	13	12
78 to 80 F	eet	10	9	19	9	8	8	11	12	11	11	10	10	9	8	8
89 to 99 F	eet	7	5	6	6	5	5	8	8	_ 8	7	4	_ 6	7	4	6
98 to 166 F	eet	4	3	4	4	3	4	5	5	5	5	3	4	4	2	3
above 100 F	eet	31	15	23	33	14	23	32	20	26	25	13	19	34	12	23
Hean height	Feet	93	69	81	91	65	78	96	79	_8?	88	68	78	95	65	80

PARAMETER	YE	ARL	ľ	JF	in-ni	38	AF	ペーノリ	JH	JU	JL-SE	P	00	T-DE	EC.
	day	nit	dŧn	day	nit	dtn	day	711	dan	day	nit	din	day	nit	₫&n
% occur EL&SB dcts			2			3			2			1			3
% occur 2+ EL dcts			3	l		4	ł		3	}		1	l		3
AVG station N			333	i		344			330	1		324	i		334
AVG station -N/Kft	i		17	1		28			14	l		14	Ì		19
AVG sfc wind Kts	14	14	14	16	16	16	13	12	12	13	12	13	16	15	15

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

Specified location: 20 22 S 118 37 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 94312 20 22 S 118 37 E

Radiosonde station height: 20 Feet Surface obs source: MS396 25 00 S 115 00 E

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	Y	EARL'	Y	J	RN-M	AR .	Al	PR-JI	JN	Jl	JL-SI	Ρ	01	וע-זכ	EC
_	day	nit	d&n	day	nit	den	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	9	- 0	4	9	9	4	7	9	3	6	9	3	13	0	6
1 GHz	51	15	33	54	14	34	50	28	35	41	13	27	60	12	36
3 GHz	€3	23	43	65	22	44	63	32	48	54	29	_37	70	19	44
6 GHz	85	63	74	84	57	70	88	72	89	84	65	75	87	5?	72
18 GHz	95	88	92	92	84	88	96	91	94	96	91	94	95	88	91
20_GHz	97	94	96	95	91	93	_98	96	97	99	96	98	97	94	96

SURFACE BASED DUCT SUMMARY:

								_						
PARAMETER	YEAR	LY	3	AH-HA	R I	AF	アーノし	IN .	Jl	JL-SE	P	G	CT-DI	EC
	day ni	t dån	day	nıt	d&n	day	nit	dân	day	nit	d&n	day	nit	din
Percent occurrence	39	9 20	43	0	22	38	0	19	29	8	15	46	8	23
AVG thickness Kft	ĺ	.48	ſ		.51	į .		.40			.41	l		.59
AVG trap freq GHz	1	.36	1		.36	l		.46			.41	İ	•	.22
AVG lyr grd -N/Kft		92	<u> </u>		103	L		95	L		85			87

ELEVATED DUCT SUMMARY:

PARAMETER	Y8	ARL	,	J	AN-MI	AR .	AF	R-J	ЙÜ	JI	JL-SI	P	00	CT-DI	EC
	day	nit	dŁn	day	nit	d&n	day	nit	d&n	day	nit	din	day	nit	d&n
Percent occurrence	20	0	19	18	8	9	22	0	11	20	0	18	20	0	10
AVG top ht Kft	l		4.3	ļ		3.8			7.0			3.3			3.8
AVG thickness Kft			.42			.59			. 24	İ	_	.40			.44
AVG trap freq GHz			.60			.27			1.1			.47			.57
AYG lyr grd -N/Kft			58	l		63	1		59	i		57			61
AVG lyr base Kft			4.0			3.4			6.8	i .		3.0			2.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT O	CCURRENCE	YE	ARLY	<i>,</i> –	J	คท-หเ	RR	AF	R-Jl	JH	Ji	JL-SI	EP	00	T-DE	C
		day	nit	đặn	day	nit	d&n	day	nit	dŧn	day	n t	d&n	day	nit	din
0 to 1	8 Feet	3	-2	2	5	5	5	1	2	1	1	1	1	3	2	3
10 to 2	8 Feet	2	3	2	3	4	4	1	2	2	1	3	2	2	3	2
20 to 3	0 Feet	4	_ 6_	5	5	7	6	3	5	4	4	5	4	4	7	5
38 to 4	0 Feet	6	18	8	6	11	9	4	8	6	7	9	8	6	13	10
40 to 5	0 Feet	9	15	12	9	16	12	9	11	10	11	17	14	9	17	13
50 to 6	0 Feet	12	17	14	11	16	13	12	_13	13	14	28	17	11	17	14
60 to 7	0 Feet	12	14	13	9	12	11	13	15	14	15	16	15	11	13	12
70 to 8	0 Feet	18	9	10	9	8	8	11	12	11	11	16	10	9	8	8
88 to 9	0 Feet	7	5	6	6	5	5	8	8	88	7	4	_ 6	7	4	6
90 to 1	00 Feet	4	3	4	4	3	4	5	5		5	3	4	4	2	3
above 1	88 Feet	31	15	23	33	14	23	32	20	26	25	13	19	34	12	23
Hean her	ght Feet	93	69	81	91	65	78	96	79	87	88	68	78	95	65	80

PARAMETER	YE	ARLY		3(าห-หเ	R.	RF	R-J	JN .	Ji	IL-SE	P	00	T-DI	C
	day	nit	d&n	day	nit	d&n	day	nit_	d&n	day	nit	d&n	day	nit	dŧn
% occur EL&SB dcts			4			4			6			3			3
% occur 2+ EL dcts			2			3			2			1	i		4
AVG station N			346			373	i		337			324			349
AVG station -H/Kft	i		19			23			16			16			22
AVG sfc wind Kts	14	14	14	16	16	16	13	12	12	13	12	13	16	15	15

HISTORICAL PROPAGATION CONDITIONS SUMMAPY IREPS REV 2.1

25 00 S 105 00 E (*) INDICATES INSUFFICIENT DATA Specified location:

Radiosonde source : 94300 24 52 S 113 39 E

Radiosonde station height: 18 Feet 25 00 S 105 00 E Surface obs source: MS397

PERCENT OCCUPRENCE	OF E	HAN	CED '	SURF	ACE-1	ro-si	<u>JPFA(</u>	CE RI	ADAR.	<u> /ESH</u>	<u> - COM</u>	RAN	GES:		
FREQUENCY	Y	ERRL'	Y	J1	N-MI	R -	Al	IL-S	UN	J	UL-SI	EP	0	CT-DE	EC
	day	nit	dan	day	nít	dan	day	nit	d&n	day	nit	J&n	day	nit	din
100 MHz	2	0	1	4	0	2	1	0	1	1	0	0	3	8	2
1 GHz	28	8	18	35	11	23	23	7	15	19	6	12	35	9	22
3 GHz	40	17	28	49	21	35	35	16	25	31	13	22	46	17	32
6 GHz	75	61	68	79	65	72	72	61	67	71	57	64	79	69	69
10 GHz	93	89	91	93	89	91	91	88	98	93	98	91	95	89	92
20 GHz	97	96	97	97	96	96	96	96	96	98	97	97	98	96	97

100

SUPFACE PASED DUCT	SUMMARY:													
PARAMETER	YEARL	7	J	AN-HI	R	AI	R-JI	JN	J;	JL-Si	EP.	O	CT-DE	EC
	day nit	d\$n	day	nit	d&n	day	nıt	den	day	nit	d&n	day	nit	den
Percent occurrence	12 0	6	20	9	16	9	8	5	5	8	3	14	9	7
AVG thickness Kft	ĺ	.48			.60	ł		.40			. 32			.59
AVG trap freq GHz	1	.61			.38	l		.65			1.2	l		.27
AVG lyr grd -N/Kft		115	L.		95			112			152	j		101

PARAMETER	Y	EARL'	Y	J	AH-MA	ar.	į Ai	PR-JI	אנ	J	リレーSI	EP	01	CT-DE	EC
	day	nıt	d&n	day	n11	d&n	day	nit	d&n	day	nit	_d&n	day	nit	dan
Percent occurrence	34	0	17	37	0	19	27	0	14	25	0	13	46	0	23
AYG top ht Kft			3.9	ł		2.4	l		5.4			5.5	ĺ		2.2
AVG thickness Kft		_	.51	į		.74	İ		. 34			.37			.60
AVG trap freq GHz			.38			.17	[.67			.48			. 20
RYG lyr grd -N/Kft	ļ		59	1		61	l		55			58			62
AVG for base Kft			3.5	l		1.9	l		5.1	ł		5.3	ŀ		1.8

EVAPORATION DUCT HISTOGRAM IN PEPCENT OCCUPRENCE:

PERCENT	OCCURRENCE	YE	HRL	7	Jì	AN-MI	R.	8i	PR-JI	JN	J	UL-SE	P	00	CT-DE	EC
l		day	n11	dŧn	day	nit	dtn	day	nit	dan	day	nıt	d&n	day	nit	dan
8 to	10 Feet	1	1	1	2	2	2	2	1	2	1	1	1	1	1	1
10 to	28 Feet	2	3	3	3	2	3	3	3	3	2	2	2	2	3	2
20 to	30 Feet	5	7	6	4	7	6	5	9	- 6	5	. 7	6	3	7	5
30 to	40 Feet	7	12	9	6	9	7	8	11	10	8	14	11	6	13	10
40 10	50 Feet	13	16	15	12	15	13	13	16	14	15	19	17	13	16	14
50 to	60 Feet	15	18	16	13	18	15	15	18	17	17	20	19	13	16	15
60 to	70 Feet	13	15	14	12	14	13	15	16	15	13	15	14	13	16	15
70 to	80 Feet	10	11	11	10	12	11	10	11	11	10	9	10	18	10	10
80 to	90 Feet	7	5	6	_ 8_	7	7	7	5	6	_7	_ 5	6	7	4	- 6
90 to	100 Fe€t	4	3	4	6	4	5	4	3	4	4	3	3	4	3	4
above	100 Feet	22	8	15	24	11	17	19	7	13	17	6	11	27	9	18
Mean h	eight Feet	98	61	71	83	64	74	75	61	68	74	58	66	87	63	75

YE	ARL	Ÿ	31	814-1 <u>1</u> 1	AR .	ĤĤ	PR-JI	HU	JU	L-SE	EP	00	CT-DI	EC
day	nıt	d& n	day	nit	d&n	day	ทาเ	d&n	day	nit	ď&n	day	112	den
		2			3			2			1			3
l		3	ļ		4			3	l		i	!		3
İ		333			344			330	İ		324	l		334
l		17			28	ĺ		14	1		14	ĺ		19
14	14	14	16	16	16	14	13	14	13	13	13	14	13	14
	day	day nit	2 3 333	day nit d&n day 2 3 333	day nit dt day nit 2 3 333	day nit dtn day nit dtn 2 3 3 4 333 344	day nit d&n day nit d&n day 2 3 3 4 333 344	day nit dtn day nit dtn day nit 2 3 3 4 333 344	day nit dan day nit dan day nit dan day nit dan 2 3 2 3 4 3 333 344 330	day nit dtn day nit dtn day nit dtn day nit dtn day nit dtn day 2 3 2 3 2 3 4 3 3 333 344 330 330	day nit dtn day nit dtn day nit dtn day nit 2 3 2 3 4 3 333 344 330	day nit dan day nit day nit	day nit dtn day nit dtn	day nit dtn day nit dtn

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

Specified location: 20 18 S 57 30 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 61995 20 18 S 57 30 E Radiosonde station height: 1394 Feet Surface observation Medical Company Medical

Surface obs source: MS402 25 00 S 55 00 E

PEPCENT OCCURRI	ENLE OF ENHANCI	ED SUP	<u> </u>	TO-\$1	UPFAC	E RF	DAR	ESH	COH_	PRH	<u>:ES:</u>		
FREUUENCY	YERRLY		JAH-H	ละ	A.F	R-JL	IN	JI	JL-SI	P	00	T-DE	ĒČ
L	day nit o	dan da	y nit	dŁn	day	nit	d&n	day	nit	dŁn	day	nit	d&n
100 KHz	3 1	2	0 1	9	10	1	6	3	1	2	- 8	1	1
1 GHz	41 11	26 3	8 11	25	54	10	32	32	8	20	41	13	27
3 GHz	53 18	36 4	9 19	34	68	21	44	44	15	30	59	19	_ 35
6 GHz	81 58	69 7	9 68	70	89	63	76	78	58	68	77	52	64
10 GHz	94 98	91 9	3 88	90	97	89	93	94	88	91	91	86	89
20 GHz	97 95	96 9	7 94	96	98	56	97	97	95	96	96	93	95

SUPERCE RASED DUCT SUMMARY:

	301111	36.1													
PARAMETER	[Y	EARL	<u> </u>	J	AN-M	AR	A	R-J	JH 🔠	_31	りたーミ	EF	0	CT-DE	EC
L	day	nit	dan	day	nit	den	day	n:t	dŧn	day	ខារ	den	day	nit	dan
Percent occurrence	15	4	18	0	4	2	50	4	27	11	3	7	9	5	3
AVG thickness Kft	l		.49			. 57	1		.46	ĺ		. 34			.68
AVG trap freq GHz	i		.30	1		.36	l		.36	l		. 24			. 24
RVG lyr grd -N/Kft			105	Ĺ		129	Ĺ		93		_	127			72

FIEVATED BUCT SUMMARY.

PARAMETER	Y	EARL	Y	J	AH-XI	AR	61	R-J	אט	Ji	JL-SI	P	C	T-DE	C
	day	nıt	din	day	nit	din	day	nit	dan	day	nit	dan	day	nit	d&n
Percent occurrence	25	27	26	:1	27	19	10	25	18	54	25	43	25	30	28
AVG top ht Kft	ļ		5.9			3.8			5.1			5.4			5.6
AVG thickness Kft	_		. 45	ĺ.,		. 45			.56			. 33		_	.47
AVG trap free GHz			.42	<u> </u>		.37			.23			.67			.41
AVG lyr grd -N/Kft			59	ĺ		60			63			55	i		56
AVG lyr base Kft			4.6			3.4			4.8	_	_	5.1			5.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PEPCENT	OCCURRENCE	Y	EARL.	Y	3	ค-หล	AR _	R	PR-J	UN	31	JL-SI	P	- 00	CY-DI	EC
		day	nit	d£n	day	nit	d&n	day	nıı	dan	day	กาเ	dan	day	nit	d&n
0 to	10 Feet	2	2	2	2	2	2	2	1	1	2	2	2	2	2	2
18 to	20 Feet	1	4	3	1	4	3	1	2	2	1	4	3	1	4	3
20 to	30 Feet	4	7	_ 5	_ 4	7	_ 5	j _ 3	8	_ 5	4	. 7	_ 5	4	8	6
30 10	40 Fees	6	12	9	<u> </u>	11	8	5	19	8	8	12	10	6	15	10
40 10	58 Feet	9	19	14	j 9	18	13	10	16	13	10	19	15	9	21	15
50 to	60 Feet	12	13	15	11	18	14	14	17	_15	14	_ 20	. 17	j 9	16	13
68 10	70 Feet	12	14	13	11	15	13	12	15	14	13	15	14	10	12	11
70 to	80 Feet	9	9	9	8	10	9	12	11	12	19	10	10	8	7	7
cr 98	90 Feet	7	5	- 6	7	4	5	8	. 6	7	9	5	7	5	3	4
90 to	108 Feet	3	3	4	5	3	4	5	4	5	4	2	3	4	2	3
above	160 Fzet	33	8	20	1 38	9	23	27	3	17	25	6	15	4:	10	25
Hean he	igni Feet	94	50	_7?	1:00	60	88	_88	62	_ 75	85	58	71	106	60	83

YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
day nit din	day nit dani	day nit dan	day nit dan	day nie den
1	2	9	1	1
3	4	1	3	3
346	358	344	336	345
17	19	16	16	17
13 12 12	14 13 13	13 12 13	14 12 13	11 10 10
	dav nit dån 1 3 346 17	day nit dan day nit dan 1 2 3 4 346 358 17 19	day nit dan day nit dan day nit dan 1 2 9 3 4 1 346 358 344 17 19 16	day nit dan 9 3 4 1 346 358 344 336 17 19 16 16

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 25 01 S 46 57 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 67197 25 01 S 46 57 E

Radiosonde station height: 26 Feet Surface obs source: HS403 25 00 S 45 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

PERFERI OFFORKERFE	OF E	HHHI	<u> </u>	POKE	HLE-	<u> </u>	JEFRI	.E 81	אמעה	'E 31.	CUR	KUN	<u> </u>		
FREQUENCY	Y	EARL'	Ÿ	Ji	AN-M	ar –	Al	アーゴ	NH.	- 31	JL-SI	EP	0	CT-DI	EC
1	day	nit	d&n	day	nıt	dan	day	nıt	d&n	day	nit	d&n	day	nıt	dŁn
100 MHz	0	1	1	0	3	1	9	1	- 0	9	1	0	0	1	1
1 GHz	26	13	28	31	19	25	22	18	16	23	9	16	38	12	21
3 GK=	39	_20	30	46	30	38	37	18	27	34	15	24	48	19	29
6 GHz	74	58	66	77	65	77	75	61	- 68	78	53	62	72	53	63
10 GHz	91	85	88	92	89	91	92	87	89	98	83	86	89	83	86
20 GHz	96	94	95	96	95	96	96	94	95	96	92	94	94	92	93

SURFACE BASED DUCT SUMMARY:

PARAMETER	YI	EARL'	Y	3	AH-H	AR	AI	R-Jt	JH	3	UL-S	EP	01	CT-DI	EC
	day	nıt	d&n	day	nit	dan	day	nit	d&n	day	nit	35	day	การ	d&n
Percent occurrence	8	9	4	8	17	9	8	2	1	9	6	3	- 0	10	5
AVG thi kness Kft	•		.42	ļ		.34	i		.56	ł		.27	ł		.50
RVG trap freq GHz			.94	1		.61	ŀ		. 24	l		2.2	l		.73
AVS lyn grd -N/Yft	i		361	L_		297	L		196	<u> </u>		718	L		322

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	r	Jí	in-Hi	1R	ค	P-JI	UN	31	JL-SE	P	01	CT-DI	EC
	day	nit	din	day	ra t	d&n	day	nit	dån	day	nit	den	day	nıt	dŁn
Percent occurrence	9	15	8	8	19	10	0	7	4	8	13	7	0	21	11
AVG top h: Kft	İ		5.3	l		4.8	ĺ		4.8			6.5	i		5.2
AVG thickness kft			.47			.76	1		.26			.32	1		.54
AVG trap freq GHz			1.6			. 55			2.3	i		2,3			1.2
AVG lyr grd -H/Kft	1		72	!		73	l .		78	l		61	i		75
AVG lyr base Kft			5.8	i		4.3	!		4.7			6.3	1		4.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT O	CCURRENCE	YE	ARL'	,	J	AN-MI	18	Ri	R-J	311	J	UL-SI	EΡ	O.	CT-DI	EC
		day	nit	dån	yet	nit	dŧn	day	nıt	d&n	day	nıt	d\$n	day	nit	dèn
9 to 1	0 Feet	2	2	N	3	_2	2	1	2	2	3	2	2	3	3	3
10 to 2	0 Feet	2	5	3	2	4	3	2	4	3	3	6	4	3	5	4
20 10 3	0 Feet	5	9	7	4	7	_6	4	8	6	5	19	8	5	11	8
30 to 4	0 Feet	7	12	10	6	12		6	10	8	8	13	10	8	14	11
40 to 5	0 Feet	18	17	14	9	16	13	10	16	13	12	19	15	9	18	13
50 10 6	0 Feet	12	17	15	9	17	13	13	17	15	13	17	15	12	17	15
60 10 7	0 Feet	12	14	13	12	14	13	14	15	14	13	13	13	12	12	12
78 10 8	0 Feet	19	9	18	10	10	10	12	12	12	10	8	9	9	8	8
80 10 9	B Feet	_ 7	4	5	9	5	7	្ន	5	7	7	3	5	6	3	4
90 to 1	00 Fee*	5	2	4	6	3	5	6	3	4	1	1	3	4	2	3
above 1	00 Feet	26	8	17	31	10	28	22	8	15	23	7	15	36	7	18
Hean her	ght Feet	86	59	72	91	61	76	81	_52	71	81	<u>56</u>	68	89	55	72

PARAMETER	YEARL	Y	Ji	าน-หล	1R	RP	R-J1	ИL	JU	L-SI	P	00	CT-DE	EC
	day nit	d&n	day	ntt	d\$n	day	n11	din	day	211	dtn	day	011	den
% occur EL&SB dcts		2			3			G			9			4
% occur 2+ EL dcts		1	l		2			8	İ		0	1		8
AVS station H		363	i		372			359			354	1		368
Avu station -H/Kft		17	1		17			16			16	i		18
AVG afe wind Yes	14 13	14	14	14	14	14	13	13	14	13	13	14	13	13

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SURHARY

Specified location: 25 55 S 32 34 E (*) INDICATES INSUFFICIENT DATA

Padiosonde source : 67341 25 55 \$ 32 34 E

Radiosonde station height: 128 Feet

Surface obs source: MS404 25 00 S 35 00 E

PEDIENT OCCUPPENCE OF ENHANCED SUPFACE-TO-SUPFACE DATABLESM/COM DANCES

ERCEPT OCCURRENCE	Ur E	anna	CED .	SUKF	MLZ-	10-3	UFFR	- E R	חשתר	E 311/	CUN	KINI	<u> 353.</u>		
FREQUENCY	Y	EARL	Y] JI	คน-ส	BR	RI	PR-JI	אט	J(JL-SI	EP	00	CT-DI	EC
	day	nit	dan	day	ni t	dan	day	nit	d&n	day	nit	din	day	ni t	dan
169 MHz	1	1	1	3	8	2	1	1	1	1	3	2	1	2	1
i GHz	36	13	21	41	10	26	25	11	18	22	17	29	39	12	21
3 GHz	42	_ 23	32	54	21	37	39	_ 21	_38	34	27	38	42	21	32
6 GHz	75	61	68	81	63	72	77	65	71	69	61	65	72	56	64
10 GHz	91	87	89	94	88	91	93	88	98	99	87	88	89	84	87
28 GHz	96	94	95	97	94	95	96	94	95	95	94	95	94	93	93

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y .	J	AH-H	AR .	A	R-JI	JH	- 31	JL-SI	EP	O	CT-D	EC
	day	nıt	dŁn	day	nit	d&n	day	nit	dan	day	nit	d&n	day	nit	den i
Percent occurrence	11	11	11	2:	2	12	9	-6	8	8	23	15	6	14	10
AVG thickness Kft			.33	1		.28	ĺ		.40	ĺ		.34	ĺ		.28
AYG trap freq GHz	ļ		1.2	1		.63	i		1.9			.87	1		1.3
AVG lyr grd -N.Kft			246	L		118	L		166			129			581

ELEVATED DUCT SUMMARY:

PARAMETER	V	EARL'	,	1	AH-M	90	A	R-JI	IM.	71	JL-SI	ΕĎ	0.0	T-DI	
			-	1				_	- 1						
	gay	nit	CER	Jay	<u>n1 t</u>	O&n	gay	nit	q&n	gay	nit	akn	gay	nit	<u>asn</u>
Percent occurrence	14	18	16	11	33	22	16	16	1€	11	9	10	19	12	16
AVG top ht Kft			5.7	l		6.2	i		5.9			4.8	i		6.1
AVG thickness Kft			. 42			.47			.27			.31	!		.63
AVG trap freq GHz			.60			.42			. 93			388			.19
AVG lyr grd -N/Kft	ļ		58	ļ		56	l		57	l		56	ļ		64
AVG lyr base Kft	<u> </u>		5.4	<u> </u>		5.9	L		5.6	L		4.5	<u> </u>		5.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCUR	RENCE	YE	ARLY	,	7	AH-H	RR	Ai	P-JI	UN	3	<u> </u>	E5	00	CT-DI	EC
		day	nit	d&n	day	nit	din	day	การ	d&n	day	nit	din	day	nit	ರಕಿಗ
0 to 10 F	e#t	2	-2	2	3	- 2	- 2	1	1	1	2	2	2	3	3	3
10 to 20 F	eet	2	5	4	2	3	3	2	5	4	3	6	4	ј з	5	4
28 to 38 F	eet	5	8	6	4	6	5	4	7	5	_6	. 9	7	_ 5	_ 9	7
38 to 48 F	eet	7	12	9	6	18	8	€	9	8	9	13	11	7	14	11
48 to 50 F	eet]	11	17	14	9	16	13	11	15	13	13	19	16	19	17	14
50 to 50 F	eet	13	17	15	11	17	14	14	18	16	15	18	16	12	_17	14
60 to 70 F	eet	12	14	13	11	15	13	14	16	15	13	13	13	10	12	11
70 to 80 F	eet [10	10	19	9	11	10	11	11	11	10	8	9	9	9	9
88 10 90 F	eet	_ 7_	_ 5_	6	_?	6	_ 7	្ទ	?	. 7	6	4	5	7	. 4	5
98 to 198 F	eet	5	3	+	5	4	- 5	6	4	5	4	Ž	3	5	2	4
above 108 F	eet	25	8	17	32	9	21	22	9	15	19	6	12	28	7	27
Kean reight	Feet	85	59	72	94	63	79	82	62	72	76	55	_65	_87	56	72

GE:: 6	~~														
PARAMETER	YI	ARL'	Υ	Ji	3H-HI	RR	AF	P-J	JH .	31	JL-SI	P	00	T-DE	C
	day	nit	d&n	dav	<u>n11</u>	din	day	nit	den	day	ការ	d£n	day	nit	d&n
% occur ELESB dcts	I		1			2			- 6			1	-		1
% occur 2+ EL dcts	•		1	•		4			1	İ		8	<u>!</u>		1
AVG station N	l		358	Į.		369	l		344			335	i		350
AVG station -H/Kft	l		16	1		18	į .		16			14	l		16
AVG sfc wind his	13	13	13	13	13	13	13	12	13	14	13	13	34	13	13

28 34 S 16 31 E (+) INDICATES INSUFFICIENT DATA Specified location: 28 34 S 16 31 E Radiosonde source : 68406 Radiosonde station height: 89 Feet 15 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESH/COM RANGES:

PERMITTION OF COURT ACE	. U. C.	********		2000			<u> </u>		1241111			,			
FREQUENCY	Y	ERRL	γ	31	H-KE	RR	A	R-Ji	JN	Jŧ	UL-SE	6	0.0	CT-D!	EC
	day	nıt	dan	day	211	d&n	day	nit	dan	day	1.12	d&n	day	nıt	d&n
186 HHz	1	8	1	1	0	1	1	0	1	2	9	1	1	0	1
1 GHz	19	6	13	22	6	14	21	9	15	18	5	12	17	6	11
3 G4z	25	9	17	29	10	19	26	11	18	24	7	15	22	9	_ 15
6 GHz	47	29	38	54	36	45	47	31	39	44	25	34	42	24	33
10 GHz	72	61	67	77	69	73	73	62	67	71	58	65	67	56	62
20 GHz	83	77	88	85	81	83	84	77	81	85	78	81	79	74	77

SUPFACE BASED BUCT SUMMARY:

Surface obs source: MS486 25 00 S

PAPAHETER	Y	YEARLY day nit dan			AH-M	ar -	Al	PR-J	UN	3	UL-SI	EP	0	CT-D	EC
	day	nit	dŧn	day	n:t	dşn	day	nit	din	day	nit	d&n	day	nit	den
Percent occurrence	9	1	5	10	0	<u> </u>	7	0	4	12	9	- 6	6	3	5
AVG thickness Kft	ł		.43	ĺ		. 43	l		.50	İ		. 4?	l		. 34
AVG trap freq GHz			.61	1		.75			. 35			.76	!		. 65
AVG lyn gnd -N/Kft		_	125			162	L		111	L_		109			116

ELEVATED DUCT SUMMARY:

PARRMETER	Y	ERRL	Y	3	AN-M	AR	ลเ	PR-J1	HL	Jŧ	JL-SI	EP	90	CT-DI	EC
•	day	nit	dîn	day	การ	d&n	day	nit	dan	day	nit	d&n	day	nit	d£n
Percent occurrence	12	4	8	19	8	10	8	9	4	9	3	5	13	15	14
AYG top ht Kft	ł		3.1	i		3.1	l		2.2	1		4.8	1		3.1
AVG thickness Kft			.47	L		. 60	L		. 47	L		.22	Ĺ		.58
AVG trap freq GHz			.71			.37			.37	Γ-		1.8	-		.33
AVG lyr grd -H/K^t	l		59	1		56	ĺ		56	l .		53	I		69
AVG lyr base ift	1		2.8	1		2.7	!		1.8	l		3.8	I		2.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCURRENCE	YI	EARL	Y	J1	fixi-H	AR .	, A	PR-JI	UN	J1	ひレーら	Ε Ρ	00	CT-DE	E۲
L		dav	2011	den	day	211	den	day	nit	ರಕಿಗ	day	nit	den	349	nit	den
0 to	18 Feet	10	12	11	19	12	<u> 1</u> 1	9	12	10	8	9	9	13	14	14
10 10	20 Feet	j s	11	10	6	8	7	8	11	10	10	13	12	9	12	11
20 10	30 Feer	12	16	14	۹	12	1.6	13	16	14	16	19	17	12	19	16
30 10	40 Feet	14	17	16	12	15	14	14	16	15	16	19	17	14	18	16
40 10	50 Feet	13	15	14	13	18	16	13	14	14	14	15	15	13	14	14
50 to	60 Feet	11	11	11	11	13	12	11	18	16	11	11	11	10	9	16
60 to	70 Feet	7	6	7	9	8	- 9	7	6	7	6	5	- 6	7	- 4	5
78 tc	80 Feet	5	3	4	6	5	5	5	4	4] 4	2	3	4	3	3
86 10	90 Feet	3	2	2	4	2	3	3	2	2	2	1	2	2	1	2
90 10	100 Feet	2	1	1	2	1	2	2	1	1	1	1	1	2		1
above	100 Feet	15	6	10	17	6	12	16	9	12	12	5	9	13	4	9
Hean he	right Feet	59	43	51	64	46	55	51	46	54	54	41	47	55	38	47

GENERAL METEOPOLOGY SUMMARY:

PAFAMETEP	YE	HRL	Y	3,5	H-H	AR	AP	R-JI	JN	J!	JL-SE	P	00	T-DE	EC
	day	nıt	den	Jay	nit	ರೆಕಿಗ	day	nıt	der	day	nit	dŧn	day	m1t	きゅっ
% occur EL&SB dcts			1			1			0			1	1		1
" occur 2+ EL dcts			1	1		2	l		1	•		0	1		Θ
HVG station N			333			341			329	Ī		326	l		335
AVG station -H/Kft			15			17	1		14	l		15	į		16
AVG ser wind Kis	15	15	15	16	16	16	13	13	13	15	14	15	16	16	16

THE STANSON AND THE STANSON STANSON STANSON STANSON

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

Specified location: 25 88 S 5 88 E Radiosonde source : 68486 28 34 S 16 31 E

(*) INDICATES INSUFFICIENT DATA

Radiosonde station height: 89 Feet

Surface obs source: MS407 25 80 S 5 80 E

DEDICAT OFFICERENCE OF ENHANCED SUPERCE-TO-SUPERCE SARAD/COM/COM SANCES

FEREEIT OCCUPENCE	J. C		2011	100		DICE III	<u> </u>		Pall		******	* - ' -		
FREQUENCY	YEARL	Y	3	AH-M	R.	A!	PR-JE	JH	<u> </u>	JL-51	EP T	G	CT-BE	EC
l 	day nit	d&n	day	nit	d&n	day	nit	den	day	212	dtn	day	ខារ	dån
180 MHz	1 0	1	1	8	1	1	. 6	1	2	8	1	1	8	1
1 GH2	29 7	18	34	9	22	30	7	19	24	4	14	27	8	17
3 GHz	37 11	24	44	15	39	38	12	25	32	7	19	34	11	22
ő GHz	64 43	53	71	55	63	66	46	56	59	35	47	59	36	47
18 GHz	87 81	84	98	87	88	89	83	86	86	76	82	85	76	80
20 GHz	94 93	93	95	94	94	95	93	94	94	92	93	92	91	91

SUPERCE RASER BUCT SUMMARY:

PARAMETER	Y	EARL'	7	3	ลห-หล	fiR .	Al	R-J	ijН	JI	UL-SE	P	Q	T-D	EC
í	day	nit	_18::	day	nit	dŁn	day	nit	d&n	day	nit	den	day	nit	dŁn
Percent occurrence	9	1	- 5	10	ð	3	7	- 0	4	12	0	6	6	3	5
AYG lhickness Kft	i		.43	(. 43			. 50	ł		.47	ĺ		. 34
RVG trap freq GHz			.61	į		.75	l		.35	i		.78			.65
AVG lyr grd -N/Kft	Ĺ		125	<u> </u>		162			111	L		109			116

FEEANIER DOCT SOUNDS	er:														
PARAMETER	Y	ERRL'	¥	J	AH-H	AR	A)	-R-J	UH	J	JL-S	EP	00	CT-DI	EC
	day	nit	den	day	nit	dkn	day	nit	d&n	day	nit	dŁn	day	nit	din
Percent occurrence	12	4	3	19	8	10	8	- 0	4	9	9	5	13	15	14
AVG top ht Kft			3.1	1		3.1	ı		2.2	ļ		4.0	ļ		3.1
AVG thickness Yft	L		.47	ł		.68	1		. 47			.22	•	_	. 58
AYG trap freq GHz			.71	Γ		.37			.37			1.8			.33
RVG lyr grd -H/Kft	ĺ		59	1		56	1		56	•		53	(69
AVG lyr base Kft	l		2.8			2.7	1		1.8	•		3.8		_	2.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCE	ENT	OCC	URRENCE	YI	EARL	r	J	AH-Hi	R :	A1	トピープリ	KU	J	ひしーち	EP	1 0	CT-Di	EC
				day	nit	din	day	111	<u>d&n</u>	day	nit	dŁn	day	nit	d&n	dav	nit	d&n
8	10	16	Feet,	3	3	3	3	2	2	3	2	2	3	3	3	4	4	4
16	to	20	Feet	4	5	4	3	4	3	3	5	4	4	6	5	4	6	5
26	to	39_	Feet	7	12	10	5	8	_ 6	7	10	_ 9	9	14	12	_8	15	12
36	to	40	Feet	11	18	13	8	13	19	10	17	14	14	21	18	12	- 2	16
48	to	59	Feet	14	20	17	12	19	16	14	28	17	16	22	19	15	21	18
58	to	69	Feet	13	16	15	12	_19	_ 15	12	17	14	15	16	15	13	14	14
60	20	78	Feet	9	18	10	18	13	12	18	11	10	9	8	- 8	8	7	8
78	to	89	Feet	6	6	6	8	s	8	7	7	7	5	5	5	5	4	4
88	to	90	Feet	4	3	3	_ 5	4	_ 5	5	3	4	3	. 2	3	3	. 2	3
98	to	169	Feet	3	2	2	4	2.	3	3	2	2	3	1	2	2	1	2
200	ove.	100	Feet	25	7	16	38	9	28	26	7	17	19	4	11	24	6	15
: He ar	n he	righ	t Feet	88	53	67	89	60	75	62	55	69	78	47	59	79	49	54

PARAMETER	YE	RRL	7	JF	H-H	RR	AF	-R-JI	JH	31	IL-SE	P	00	T-DE	EC
	day	nit	dtn	day	nit	din	day	nit	din	day	nit	d&n	dav	nit	din
% occur EL&SB dcts			1			1			8			1			1
% occur 2+ EL dcts			1			2			1			9			8
AVG station N			333			341	í		329			326			335
AYG station -N/Kft	İ		15			17	İ		14	l	•	15	i		16
AVG_sfc wind_kts	14	14	14	14	15	15	14	13	13	16	15	15	14	14	14

Specified location:

(+) INDICATES INSUFFICIENT DATA

Radiosonde scurce : 83971 30 00 S 51 10 H Radiosonde station height: 10 Feet Surface obs source: MS412 35 00 S 45 80 W

CEDIENT ACCUIPMENTE OF ENHANCED SUPERIFFED-SUPERIF PADAP-FSK CAK RANGES:

LEKTEN! OFFORKEHTE (JP ENMANLI	CT. SOK	- MCE-10-3	DEFUCE BUDDLE	EDIT CON KINS	360.
FREQUENCY	YERRLY		JAN-HAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit	d&n day	nit dan	day nit din	day nit d&n	day nit dan
100 MHz	2 2	21	3 2 3	1 0 1	3 3 3	2 1 1
1 GHz	24 19	17 3:	3 14 24	17 6 12	17 14 15	27 7 17
3 GHz	31 15	23 4	2 21 31	24 10 17	23 17 26	36 11 23
6 GHz	57 49	49 7	3 49 59	57 33 48	43 35 39	59 37 48
10 GHz	79 78	75 8	5 77 82	81 72 76	79 62 66	78 76 74
20 GHz	87 82	83 9	2 87 90	89 84 86	81 75 78	86 83 84

SURFACE RASED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	J	RH-H	R.	121	R-J	ИN	JI	JL-SI	P	Q.	CT-Di	EC
	day	nt	d&n	day	nit	ರಹಿಣ	day	nit	ರ೬ಣ	day	nit	din	day	nit	din
Percent occurrence	13	7	10	14	9	12	16	3	7	13	13	13	13	4	9
AYG thickness Kft			.51			. 65	ł		. 45	i		. 55			.40
AVG trap freq GHz	i		.47	į		. 28			.68	i		. 34	i		.58
AVG lyn grd -N/Kft			181			85			105	L		38	L		127

FLEVATED DUCT SUMMARY:

PARAMETER	ΥĮ	ARLY	ř	31	RH-M	AR T	A	1L-39	156	Ji	JL-SI	EP	C:	CT-BI	EC
	day	nı*	dsn	day	416	d&n	day	การ	d&n	day	n:t	d&n	day	nit	dån
Percent occurrence	36	49	42	33	44	39	37	53	45	36	46	41	3?	52	45
AYG top ht Kft			5.9			6.3	l		5.9			5.3	İ		6.1
AVG thickness Kft			. 50	ł		. 59	l		.52			.42	<u> </u>		.45
AVG trap freq GHz			.31			.20	i		.32			.37	Γ		, 37
AVG lyr grd -H/Kft			63	1		66			61	l		61	l		64
AVG lyr base Kft			5.5			5.9	l		5.5	<u> </u>		5.0	<u> </u>	_	5.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENC	E Y	EARL'	Y	J	ลห-หเ	AR.	A	P-J	J#i	J	UL-S!	EΡ	į ()	CT-DI	EC
	day	ntt	den	day	การ	din	dey	n12	d&n	C3y	nit	din	day	nıt	dtr
8 to 18 Feet	7	10	9	6	7	- 6	Ε	7	6	13	15	14	18	9	19
10 to 20 Feet	6	9	8	3	7	5	7	9	8	8	13	11	€	S	8
20 to 30 Feet	9	13	11	7	11	9	9	13	11	13	15	14	8	14	11
38 to 48 Feet	12	16	14	8	13	10	12	16	14	16	17	16	10	17	13
40 to 59 Feet	13	17	15	11	38	14	14	18	16	15	15	15	12	17	14
50 10 60 Feet	13	14	13	12	14	13	16	14	15	13	11	12	11	1 3	13
60 to 70 Feet	9	8	9	12	11	11	11	<u>.</u>	36	5	5	6	}ş	7	8
78 to 88 Feet	6	5	6	ļ s	6	7	7	6	7] 4	3	4	6	4	5
88 to 93 Feet	4	_ 2	3	5	3	4] 4	2	3	3	1	2	1 4	_ 2	3
98 to 108 Feet	1 3	3 1	2	3	2	3	3	1	2	1	1	1	3	1	2
above 188 Feet	16	5 5	11	25	8	16	12	4	8	8	4	6	2:	5	13
Mean height Feet	64	46	55	79	53	6€	69	46	53	47	39	_43	79	- 46	59

PARAMETER	Yε	ARL	۲	J:	115-116	RP	AF	とーごり	354 J	36	JL-SE	P :	90	T-DE	EC
	day	nit	din	day	n+1	ರಕಿಗ	day	011	din	dav	nit	d&n	dan	211	den
% occur EL&SB dcts			3	_		4			2			4			4
% occur 2+ EL dcts	1		5	1		5	•		5			4	i		5
AVG station H	l		348	i .		361	i		346			337	ł		346
AVG station -H/Kft			16	i		17	ļ		16			:6			16
AUG sic wind its	14	13	14	13	12	_ '2	14	13	14	15	14	14	14	13	14

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 34 49 S 58 31 H (*) INDICATES INSUFFICIENT DATA Radiosonde source: 87576 34 49 S 58 31 W

Radiosonde station height: 66 Feet Surface obs source: MS413 35 00 \$ 55 00 H

PEDISHT OFFHDDSHIF OF FUHANCER SUPERIE-TO-SUPERIE DARROVESHIFON PRICES.

PERLEMI	DETORKENCE	Ur s	NUUN	LED	34 <u>6</u> 5	nce-	10-21	UKER	_E_#	אחעה	COU.	<u> </u>	KAN	353.		
FRE	BUENCY	Y	ERRL	Y	J	AH-H	AR.	AI	PR-J	UN	31	JL-SI	EP .	01	CT-DI	EC
i		day	nit	dên	day	nit	din	day	nit	d&n	day	nit	d&n	day	nit	dan
168	MH2	1	<u>ī</u>	3	2	1	1	1	- 6	1	1	1	1	1	1	1
1	GHz	23	12	17	31	14	22	19	10	14	16	18	13	25	13	19
3	GHz	27	16	21	38	19	29	23	14	18	18	13	16	30	16	23
6	GH2	43	36	36	57	38	48	48	32	36	27	28	24	46	29	38
18	GHZ	62	56	59	74	67	78	66	59	62	47	39	43	63	58	61
28	GHZ	74	72	73	81	81	81	79	74	77	62	58	69	73	75	74

CHOSACE DACED MICT CHMMADY.

SUPPRIE BUSED DOL'S	OURIGHE I :				
PARAHETER	YEARLY	Jลห-หล ิ	APR-JUII	JUL-SEP	OCT-DEC
	day nit dan	day nit din	day nit dan	day nit din	day nit din
Percent occurrence	7 5 6	11 8 10	6 3 5	4 5 5	7 5 6
AVG thickness Kft	.31	.28	.39	.33	.32
AVG trap freq GHz	.69	.64	.\$7	.67	.78
AVG lyr grd -H/Kft	123	133	168	149	1:0

<u>ELEVATED DUCT SUMMRI</u>	XX:														
PARAMETER	Y	EARL	Υ	J	AH-M	AR	A	PR-JI	UH	71	UL-51	EP _	0	CT-D	EC
	day	nit	d&n	day	nit	dŁn	day	nit	dân	day	กาะ	dtn	day	การ	d&n
Percent occurrence	18	12	15	54	13	:9	14	11	13	13	14	14	19	10	15
AVG top ht Kft	i		3.6	l		4.3	İ		3.7	l		3.3	ł		3.1
RYG thickness Fft	<u> </u>		. 41	<u> </u>		- 46			.34			.37	Ĺ		.47
AVG trap freq GHz			.53	•		-42			.85			.59			. 34
AVG lyr grd -H/Kft	[57	ì		5€	1		55	{		58	i		59
AVG lyr base Kft	L		3.3			3.9	<u> </u>		3.5			3.8			2.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT 90	CURRENCE	Y	ARL	7	31	B34-11	ra .	AI	PR-JI	JN	31	UL-S	EP	e	T-DI	EC
		day	nit	dŁn	cay	211	dån	day	nit	din	day	nit	dŧn	day	nst	dzn
0 10 16	Foet	19	17	18	15	12	14	14	14	14	27	27	27	19	16	18
18 to 26	Feet	9	13	1:	5	5	7	9	13	11	13	18	15	9	16	16
20 10 39	Feet	12	_17	14	_ &	14	11	14	_16	15	15	_19	17	_11	17	14
30 to 48	Feet	11	16	14	8	16	12	14	15	14	13	13	13	11	19	15
48 :0 50	Feet	10	11	11	10	15	12	14	12	13.	7	7	7	7	12	9
58 to 58	Feet	7	8	_ 7	9	9	_ 9	. 3	10	10	4	5	4	7	7_	_ 7
€8 20 7€	Feet	5	4	5	6	6	6	5	- 5	5	3	2	2	€	4	- 5
70 to 88	Feet	3	3	3	5	5	5	3	3	3	2	1	2	4	1	3
88 10 98	Feet	_ 2	_ 2	_ 2	_ 4	3	_ 3	_ 2	2	2	1	1	1	ž	1	_ 2
98 to 16	8 Feet	3	1	1	2	2	2	1	:	1	1	1	1	2	1	1
above 16	8 Feet	20		14	26	9	18	16	8	12	14	7	:1	22	11	16
Mear here	int Feet	68	47	51	75	49	62	56	45	51	45	33	39	64	45	54

PRPAMETER	*E	3PL	,	JF	H-H	AR	AP	R-J	332	Ji	N SE	P	C	T-9E	C
	δJ	**	dan	day	nit	den	day	nis	dan	day	nit	3೬೧	day	nit	dan
Z occur ELESB mms			1			2			1			3			- 8
4 occur 2+ EL mms	i		1	l		2			2			Ü	ļ		1
AVG station N			334	i		347			328			326	i		336
AVG station - HHKFT			14	[15	ĺ		13			14	[14
AVG afe wind KTS	12	12	12	11	11	11	1 11	11	11	:1	12	11	13	13	13

E A

1

Specified location:

Radiosonde source: 83971 30 00 S 51 10 H Padiosonde station height:

10 Feet Surface obs source: MS413 35 00 S 55 00 W

PERCENT ACCURRENCE OF ENHANCER SURFACE-TO-SURFACE RABAR/FSM/COM RANGES:

30 00 S 51 10 H

PENCEI	M . (N.COKKENCE	טר ב	HPMM	ren .	SUKF	n. E.	10-3	JEFNI	<u>, E _ </u>	ארעה	E 311	COIL	KAN	3E 3.		
	FREC	ENC Y	Y	EAPL'	Y	31	คท-หเ	RR .	A	-R-JI	บห	J(UL-SI	EΡ	G	CT-DI	EC
1			day	nit	dtn	day	กาเ	dan	day	915	dŁn	day	nit	dån	day	nıı	d&n
	100	КНZ	2	2	2	3	2	3	1	3	1	3	3	3	2	1	1
ł	1	GHz	27	14	28	35	16	25	21	10	15	23	16	19	28	13	21
1	3	GHZ	32	18	25	41	21	31	25	14	28	26	20	_23	34	16	25
	- 6	GHz	45	32	39	59	39	49	42	32	37	34	27	31	49	28	39
j	10	GHz	65	57	61	75	68	71	67	59	63	52	45	48	65	58	62
L	20	GHz	75	73	74	81	81	81	88	74	77	65	61	63	75	74	75

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	3	AH-M	AR.	Ri	R-J	JH	Jl	JL-SI	P	01	CT-DI	EC
	day	nıt	dan	day	nit	d&n	day	nıt	d&n	day	nıt	dtn	day	nit	dŁn
Percent occurrence	13	7	10	14	9	12	10	3	7	13	13	13	13	4	9
AVG thickness Kft	1		.51	i		. 65	l		. 45	!		. 55	ĺ		. 48
AVG trap freg GHz			. 47	ļ		.28	1		.68			.34			.58
AVG lyn and -H/Kft			181			85	L		105			86	Ĺ		127

PARAMETER	Y	ERRL'	Ÿ	Jí	111-81	R	A	R-Ji	HL	JI	JL-S!	EP	00	CT-DE	EC
	day	กาะ	den	day	011	d&n	day	n·t	dŁn	day	nit	dtn	dav	nıt	dtn
Percent occurrence	36	49	42	33	44	35	37	53	45	36	46	41	37	52	45
AVG top ht Eft			5.9	ļ		6.3	1		5.9	l		5.3	l		6.1
AVG thickness Kft	i		. 59	İ		. 59			.52			.42			.45
AVG trap freq GHz			.31			.20			.32			.37			.37
AVG lyr grd -N/Kft	1		63	1		66	ŀ		61	l		61			64
AVG for base Kft	i		5.5	l		5.9			5,5	Į		5.8			5.7

EVAPORATION BUCK HISTOGRAM IN PERCENT OCCURRENCE:

AND CHILDIN TOCA HI	2 · OGE F	in tu	FEFE	Su O	CCUR	ENC								
PERCENT OCCURRENCE	YER	RLT		วัลห−ห	RR	91	R-JI	JH	31	JL-SE	P	00	CT-DE	C
	day r	ು∗ ರ೭	n da	9 15 2	ರಕ್ಷಣ	day	011	dtn	day	nit	dtn	day	nıt	dan
0 to 10 Feet	19	17 1	8 1	5 12	14	14	14	14	27	27	27	19	16	18
10 to 20 Feet	ļ 9	13 1	1	3 9	7	9	13	11	13	18	15	9	10	10
20 to 30 Feet	12	17 1	4 L	14	. ;1	14	16	15	15	19	17	_11	17	14
30 to 40 Feet	11	16 1	4	3 16	12	14	15	14	13	13	13	11	19	15
40 to 50 Feet	19	11 1	1 1	3 15	:2	14	12	13	7	7	7	7	12	9
50 to 60 Feet	7	8	7	• 9	و و	9	10	10	4	_ 5	4	7	7	7
60 to 78 Feet	5	4	5!	5 5	6	5	5	- 5	3	2	2	6	4	5
70 to 80 Feet	3	3	3	5 5	5	<u>]</u> 3	3	3	2	1	2	4	1	3
80 10 90 Feet	2	2	2	4 3	3	2	2	2	1	1	1	2	1	2
90 to 100 Feet	2	1	1	2 2	2	1	i	1	1	1	1	2	1	-:
above 188 Feet	20	9 1	4 2	69	18	16	ន	12	14	7	11	22	11	16
Hean height Feet	60	43 5	1 ?	5 49	62	56	45	51	45	33	39	64	45	54

PARAMETER	Y	APL'	۲	JA	?i-!!f	18	AP	R-J	หย	30	IL-SE	Р	90	T-DE	:C
	day	nit	den	day	MIL	dir	day	nit	ds.n	Jay	nit	din	day	011	dsn
% occur EL&SB dct:			- 3			4			2			1			4
% occur 2+ EL dets			5			5	ł		5			4			5
AVG station N			348	i		361			346			337	i		346
AVG station -N/Kft			16	į		17	i		16	į		16	ļ .		16
AVG sec used Kis	12	12	12	11	11	it	11	11	11	11	12	11	13	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 38 43 S 62 10 M (*) INDICATES INSUFFICIENT DATA Radiosonde source : 87748 38 43 S 62 10 M

Radiosonde station height: 246 Feet

Surface obs source: MS450 45 00 S 65 00 H

PEDCENT OCCUPDENCE OF ENHANCED CURENCE-TO-CURENCE DATABACEMACOM DANCES.

PERCENT OCCORRENCE	Ur E	nnnn	LED	SURF	nce-	10-2	UFFR	CE KI	אחעה	/ E 3 n	CUN	KARI	<u> </u>		
FREQUENCY	Y	ERRL	Ÿ	J	AH-M	RR	- Al	PR-JI	JN	J	JL-SI	P	- 30	CT-DE	ĒÇ
	day	nit	dŁn	day	nit	dan	day	ni t	dan	day	nit	den	day	nit	_d&n
100 MHz	1	8	1	1	0	1	1	0	1	9	0	8	1	6	1
1 GHz	22	13	17	31	16	24	15	13	14	16	11	13	25	13	19
3_GHz	25	15	28	36	19	28	17	14	16	19	12	16	28	15	22
6 GHz	36	25	38	49	33	41	30	25	27	27	19	23	38	22	30
10 GHz	55	48	52	67	57	62	54	53	53	46	41	43	54	41	47
20 GH=	78	66	68	78	74	76	71	78	71	63	61	62	67	58	62

SUPPRIE RASED DUCT SUMMARY.

CONTINUE BINGED DOC! C	· · · · · · · · ·													
PARAKETER	YEARL	ſ	J	AH-M	ir	ĀF	R-J	JH .	3	JL-SI	EP	00	CT-DI	EC.
i	day nit	d&n	day	ពារ	d&n	day	nit	d&n	day	nit	d&n	day	nit	dŁn
Percent occurrence	6 3	4	9	2	- 6	6	3	5	з	3	3	- 6	_ 3	5
RYG thickness Kft		.20	i		.23	ļ		. 18	i		. 27	ļ		.13
AVG trap freq GHz		1.1	ì		1.4	1		.84			1.1	ł		1.3
AVG lyr grd -N/Kft		171	Ĺ	_	200	L.		126			182	L		176

ELEVATED BUCT CHAMBRY.

ELEVATED POCT SUMBE	<u> </u>														
PARAMETER	¥	EARL'	Υ	3	H-HR	42	A1	R-J	ยห	31	JL-S	EP	- 0	CT-DI	EC
	day	nıt	din	day	nit	din	day	nit	din	day	nit	din	day	กาะ	dan
Percent occurrence	2	2	2	4	2	3	3	2	3	1	1	1	1	1	1
AVG top ht Kft			4.2	l		3.8	l		6.8	ļ		5.1	1		2.0
AVG thickness Kft	L		.37	L		.49			.22	l		.42			.37
RYG trap freq GHz			1.2			2.8			1.6			.43			1.0
AVG lyr grd -N/Kft			63	ĺ		67	•		59	•		65	l		59
AVG lyr base Kft	l		4.8	}		3.5	I		5.8	i		4.8	I		1.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCU	RRENCE	Y	ARLY		JI	an-He	R	A.F	R-J(JH .	J	JL-SE	P	- 00	T-DE	C
			day	nit	dŧn	day	nit	d&n	day	nit	d&n	day	nit	din	day	nit	din
9 to	10	Feet	28	18	19	19	16	17	17	12	14	19	26	20	24	24	24
10 to	20	Feet	13	17	15	6	11	8	15	19	17	19	28	20	11	18	15
20 to	30	Feet	15	19	17	_ 11_	17	14	18	18	18	17	20	19	13	18	16
38 10	40	Feet	13	15	14	11	14	13	16	19	17	14	15	15	9	14	11
40 to	59	Feet	8	8	8	8	11	9	10	9	10	6	7	6	8	5	6
58 to	68	Feet	5	5	5	7	8	7	6	5	6	4	4	4	5	3	4
60 to	70	Feet	3	3	3	3	4	4	3	3	3	3	1	2	3	2	- 2
78 ic	89	Feet	2	2	2	3	2	3	3	3	3	1	1	1	2	2	2
88 to	98	feet	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1
90 to	160	Feet	1	1	1	1	1	1	1	Ð	1	2	9	1	2	1	1
above	100	Feet	19	12	16	29	15	22	12	11	12	15	9	12	22	12	17
Hean he	ignt	Feet	56	43	50	73	52	63	46	45	45	47	36	42	59	48	49

PARAHETER	YE	HEL.		35	1H-H	AR	- AF	R-JI	JN .	J	JL-SI	EP	ŏ	CT-DE	C
	day	nit	otr.	day	nit	din	GAY	nit	din	day	nıt	dŧn	dav	nit	dŧn
2 occur EL&SB dcts			8			Ð			9			0			9
≈ occur 2+ EL dcts			A			Ċ	•		6			8	1		0
AYG station H			328	ļ		325	l		318			316			322
AVG station -N/Kft			13	ŀ		13			13			12	1		13
AVG sfc wind Kts	14	13	13	19	13	13	15	13	14	14	14	14	12	12	12

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 32 46 S 71 31 W (+) INDICATES INSUFFICIENT DATA

Radiosonde source : 85543 32 46 S 71 31 H

Radicsonde station height: 7 Feet Surface obs source: HS415 35 00 S 75 00 4

PERCENT OCCUPRENCE OF ENGANCED SURFACE-TO-SURFACE RADAP ESM/COM RANGES:

-ERLEN! (DECORREGE	Ur El	STORY	-cu	PURP	nic-	10-31	URFRI	. E _ E :	Thus	E 311	CUM	KNA	<u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		
FRE	RUENCY	YE	EARL'	Y	J	AN-M	R	AI	R−JI	JH	JI	JL-SI	EΡ	01	CT-DE	EE
		day	nit	dŁn	day	nit	d&n	day	nıt	dan	day	nit	d&n	dav	nit	đěn
108	MHz	1	2	1	1	2	2	1	2	1	8	1	1	_ ı	3	2
1	GHz	19	13	16	23	16	19	17	13	15	16	9	12	21	16	18
3	GHZ	22	17	28	27	28	23	21	16	19	18	_ 12	15	24	20	22
6	GH z	33	25	29	48	31	35	31	23	27	28	18	23	34	27	31
10	GHz	57	49	53	62	55	59	55	45	50	52	45	49	58	51	54
20	GHz	73	69	71	76	72	74	71	64	_68	76	68	69	74	70	72

SUPPORT RASER DUCT SUMMARY:

- 5	SUPFACE BASEB DUCT	SUMM	<u>ary:</u>													
Ţ	PARAMETER	Ϋ́	ERRL'	Y	J	AN-H	RP	e:	PR-J	JN	J	UL-51	ΕP	O	CT-Di	EC
L		day	nit	d&n	day	njt	d\$n	day	nit	d&n	day	nıt	dan	day	การ	dan
I	Percent occurrence	4	13	8	- 5	15	10	3	10	7	3	9	-6	- 5	17	11
Ī	AVG thickness Kft	1		.38	1		.39			-41	l		.32			.40
ĺ	AVG trap freq GHz	1		.??	(.68	!		.51	(1.4	[.58
L	AVG 1yr grd -N/Kft			108			75	<u> </u>		_ 93	<u> </u>		172			93

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	Ji	an-M	R.	RI	-R-31	HL	JI	JL-SI	P	00	CT-DE	EC
	day	nıt	din	day	nıt	din	day	nit	d&n	day	280	dŧn	day	nit	dtn
Percent occurrence	40	41	48	36	42	39	46	40	43	39	40	40	38	42	48
AVG top ht Kft	i		3.5	1		3.8			3.1	i		3.0	i		4.6
AVG thickness Kfs			.47			. 45			.49	1		.48	İ		. 45
AVG trap freq GHz			.38			.33			.25			.27			.33
AVG lyr grd -N/Kft	•		63	1		68			66	l		67	i		69
AVG for base Kft	ļ		3.2	ĺ		3.5			2.8	1		2.7]		3.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT C	CCURRENCE	71	EARL	Ý	J	AH-NI	AR	FIS	R-J	Ú₩	31	UL-SI	ĒΡ	00	CT-DI	ĒC
		day	n11	den	day	nit	dan	day	210	3Zn	day	การ	dan	¢a;	nit	dtn
8 to 1	0 feet	14	16	15	15	15	15	14	19	17	14	15	14	13	15	14
10 to 2	0 Feet	14	13	17	19	17	14	15	28	18	16	20	18	14	21	17
28 10 3	8 Feet	•7	22	19	15	20	17	17	21	19	18	25	21	17	23	28
30 to 4	10 Feet	14	18	16	14	16	15	14	17	16	15	19	17	14	19	17
40 to 5	iC Feet .	18	9	ç	10	11	11	10	7	9	9	9	9	10	è	9
50 to 6	8 Feet	_5	4	5	6	_ 6	- 5	_6	4	5	5	4	-4	5	4	4
68 to 7	B Feet	3	2	3	4	4	4	3	1	2	3	1	2	3	2	3
78 to 8	9 Feet	2	1	2	3	\$	2	2	1	1	2	1	1	2	1	2
80 to 9	0 Feet	_2	1_	1	2	_ 1	1	2	1	2	1	_ 1	1	1	9	1
90 to 1	00 Feet	1	1	1	1	0	1	1	1	i	8	1	1	1	Ø	i
above !	88 Feet	17	6	12	20	7	14	16	7	11	15	5	18	18	6	12
Hean her	ght Feet	54	35	45	61	30	50	51	34	43	50	33	41	56	35	45

GENERAL RESEURULUGI	SUBBRE										
PARAMETER	YEARL	Y	JAN	-MAR	SPP-J	UH	JU	L-SEP	00	ST-DE	C
	day nit	d&n	day n	it din	day nit	d&n	day	nit dan	day	nit	din
% occur EL&SB dcts		2		2		2		1			2
% occur 2+ EL dcts		6	i	5	i	6	i	5			7
AVG station N		333	l	336		333	!	338	ļ		332
AVG station -H/Kft	}	17	j	17		19	l	18	J		16
AVG se: wind Kis	12 12	_12	12	12 12	12 11	12	13	13 13	12	13	13

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

37 01 S 174 48 E (*) INDICATES INSUFFICIENT DATA Specified location:

Radiosonde source : 93119 37 81 S 174 48 E

Radiosonde station height: 23 Feet

Surface obs source: MS426 35 00 S 175 00 E

PERCENT O	CCURRENCE	OF E	NHRN	CED :	SUPF	ACE-	TO <u>-</u> ŞI	URFA	CE_R	ADAR.	/ESM	COM_	RANG	ES:		
FREC	DUENCY	Y	ERRL'	Ÿ	J	RN-M	AR	A	PR-JI	JH.	J	JL-SE	ΞP	00	CT-DE	EC .
		day	nit	d&n	day	nit	den	day	nit	dan	day	nit	den	day	nit	d&n
100	HHz	 1	- 0	1	1	1	1	1	9	9	0	8	0	0	-6	-0
j 1	GHz	19	8	13	25	11	18	16	8	12	13	5	9	20	8	14
3	GHz	24	10	17	32	15	23	22	11	17	17	6	11	25	10	18
6	GHz	44	28	36	51	33	42	47	33	40	37	21	29	43	23	33
10	GHz	68	58	63	71	61	66	70	63	67	66	56	61	65	52	59
20	GHz	78	72	75	80	73	76	89	74	77	78	73	75	75	67	71

SURFACE BASED DUCT	SUMM	RRY:													
PARAMETER	Y	EARL	Y	31	1H-HE	BR	คำ	R-JI	UH	71	UL-SI	EP	O	CT-DI	EC
	day	nit	d&n	day	nit	d&n	day	ni t	din	day	nit	dan	day	nit	dŁn
Percent occurrence	6	4	5	9	- 5	7	5	3	4	4	2	3	4	4	4
RVG thickness Kft	l		.30	l		.37			.28			. 25			.29
AVG trap freq GHz	l		1.3	[. 75	1		1.3	ļ		1.9			1.2
AVG lyr grd -N/Kft			119	i		124			109	l		161	L		91

ELEVATED DUCT SUMMA	RY:		_												
PARAMETER	Y	EARL	Y	J	AH-MI	AR .	AF	P-J	JH	Ji	JL-SI	P	- 01	CT-DI	EC
	day	nit	<u>d&n</u>	day	nıt	d&n	day	ni t	d&n	day	nit	dan	day	nit	dŁn
Percent occurrence	17	15	16	38	25	28	8	11	10	8	7	8	20	17	19
AVG top ht Kft	İ		5.1	1		4.8	ì		5.4			5.0	l		4.9
9VG thickness Kft			. 34	<u></u>		.48		_	.32			.29	L		. 34
AVG trap freq GHz			.62			.44			- 64			.80	i		.62
RVG lyr grd -H/Kft			57			57	l		56	l		57	ļ		60
AVG lyr base Kft			4.8			4.5	Ĺ		5,:			4.8	Ĺ		4.7

- APOPA	TION	DUCT HIS	STOGE	PAM_	IN PI	ERCE	NT_O	CCURI	RENCE	Ε:			_				
PERCEN	7 OCC	URRE-/CE	YI	BRL'	Y	J	คห-หเ	RR	AI	7R-JI	JH	J	UL-\$I	EP .	00	T-DE	C
			day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 1	0 16	Feet	16	19	17	17	20	19	15	19	17	14	15	14	17	28	19
10 t	0 28	Feet	7	10	9	6	8	7	5	8	7	10	12	11	8	13	10
20 t	0 30	Fee:	11	14	12	_ 9	12	11	11	11	11	12	18	_15	11	15	13
38 t	0 40	Feet	12	17	15	11	16	13	13	15	14	15	19	17	11	17	14
40 t	o 58	Feet	12	15	13	11	14	12	12	16	14	14	16	15	12	12	12
50 t	o 60	Feet	9	10	10	_9	11	10	10	_12	11	_10	10	_ 10	9_	8	9
60 t	6 70	Feet	?	5	6	7		6	9	- 6	8	6	4	5	6	3	- 5
70 t	o 80	feet	4	3	4	5	3	4	6	4	5	4	2	3	3	2	3
80 t	0 90	Feet	_ 3	1	2	3	1	2	_ 4	1	3	_ 2		1	2	1	1
98 t	o 100	Feet	2	ī	1	2	1	2	2	1	2	1	0	1	2	0	1
abov	e 100	Feet	15	6	11	21	9	15	14	7	18	12	4	8	19	6	13
Mean	heigh	t Feet	59	41	59	65	44	\$ 5	57	43	50	52	37	44	61	38	50

PARAMETER	YE	ARL'	Y	Ji	AN-MI	iR	AF	R-J	JH	JU	IL-SI	P	00	.T-DE	EC
	day	nıt.	din	day	nit	din	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			2			8			0			1
% occur 2+ EL dcts	ł		1			1			0			0	i		1
AVG station N			338	{		345			337			330	ĺ		338
AVG station -N/Kft			15	l		16			15	ŀ		15	1		16
AVG sfc wind Kts	15	14	14	13	12	13	16	15	16	16	15	16	14	13	13

Specified location: 35 00 S 175 00 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 93119 37 01 S 174 48 E

Radiosonde station height: 23 Feet Surface obs source: MS426 35 00 S 175 00 E

PEDCENT ACCURPTURE OF ENHANCED CURPACE-TA-CURPACE PARAD/FCM.CAN DANCES

PERCENT OCCORRENCE	Ur E	инни	ED.	COKE	HLE-	10-5	UXFH	CE KI	HUHK.	E21	CUN	KHH	7F2:		
FREQUENCY	Y	EARL'	Ÿ	J	AN-MI	RR	RI	PR-JI	אע	31	JL-Si	EΡ	00	CT-DE	EÇ
	day	nıt	d&n	day	nit	d&n	day	nıt	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	- 6	1	1	1	1	1	9	0	Θ	9	6	0	9	0
1 GHz	19	8	13	25	11	18	16	8	12	13	5	9	29	8	14
3 GHz	24	_10	17	32	15	23	22	11	17	17	_6	11	25	18	18
5 GHz	44	28	36	51	33	42	47	33	40	37	21	29	43	23	33
10 GH2	68	58	63	71	51	66	79	63	67	66	56	61	65	52	59
20 GHz	78	72	75	89	73	76	80	74	77	78	73	75	75	67	71

SURFACE RASED BUCT SUMMARY:

PARAMETER	Ϋ́I	EARL	Υ	JI	M-HE	RR	RF	P-J	JK	Jŧ	JL-SE	EP	0	CT-DI	EC
	day	n15	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nıt	d&n
Percent occurrence	6	4	- 5	9	5	7	5	3	4	4	2	3	4	4	4
AYG thickness Kft	İ		.30	i		.37	l		.28	l		. 25	l		.29
AYG trap freq GHz	l		1.3	ı		. 75	l		1.3			1.9	l		1.2
PVG lyr grd -N/Kft	i		119	ļ		124	i		100	1		161	l		91

ELEVATED DUCT SUMMARY:

PARAHETER	YI	ERRLY	7	Jŧ	H-H	38	AF	PR−ĴI	1K	Ji	IL-SE	ρ	0(T-DE	ĒČ
	day	nit	dan	day	nit	dan	day	การ	dŧn	day	nıt	dŁn	day	nıt	d&n
Percent occurrence	17	15	16	38	25	28	8	11	18	8	7	8	28	17	19
AVG top ht Kft			5.1	į		4.8	ĺ		5.4	ŀ		5.0			4.9
AVG thickness Kft			. 34			. 40	l		.32	<u> </u>		. 29	Ĺ		.34
AVG trap freq GHz			.62			.44			.64			.80			.62
AVG lyr grd -N/Kft			57	ŀ		57	Į.		56			57			60
AVG lyr base Kft	L		4.8			4.5	L		5.1	l		4.8	l .		4.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PERCENT	OČČL	JRRENCE	Y	ARL	7	J	AH-M	1R	Al	PR-JI	JH	JI	JL-S	P	00	T-DE	C
i			day	nit	d&n	day	r-1t	đần	day	nıt	d&r	day	nit	den	day	nit	d&n
0 10	10	Feet	16	19	17	17	20	19	15	19	17	14	15	14	17	20	19
10 to	28	Feet	7	10	9	6	8	?	5	8	7	18	12	11	8	13	10
20 10	30	Feet	11	14	12	9	12	11	11	11	11	12	18	15	11	15	13
30 to	40	Feet	12	17	15	11	16	13	13	15	14	15	19	17	11	17	14
48 10	50	Feet	12	15	13	11	14	12	12	16	14	14	16	15	12	12	12
50 to	60	Feet	٩	10	10	9	11	10	18	12	11	10	10	10	9	8	9
60 10	70	Feet	7	5	6	7	5	6	9	6	8	6	4	- 5	6	3	5
78 to	88	Feet	4	3	4	5	3	4	6	4	5	4	2	3	3	2	3
80 to	90	Feet	3	_ 1	2	3	1	2	4	. 1	3	2		1	2	1	. 1
90 to	100	Feet	2	1	1	2	<u> </u>	2	2	1	2	1	9	1	2	- 0	1
above	100	Feet	16	6	11	21	9	15	14	7	10	12	4	8	19	6	13
llean he	i ghi	Feet	59	41	58	65	44	55	57	43	50	52	37	44	61	38	50

PAPAMETER	YE	ARLY	7	Jf	H-M	1R	AF	R-JI	JH	Jl	L-SE	P	00	T-DE	C
	day	nıt	dån	day	011	din	day	nit	din	day	nit	d&r.	day	nit	dan
% occur EL&SB dcts			1			2			9			0			1
% occur 2+ EL dcts			1	l		1	i		0			8	1		1
AVG station N	i		338	I		345	1		337			330	i		338
AVG station -N/Kft			15			16	1		15	i		15	i		16
AJC sfc wind Kis	15	14	14	13	12	13	1€	15	16	16	15	16	14	13	13
				•											

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 35 00 S 165 00 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 94995 31 31 S 159 04 E Radiosonde station height: 151 Feet Surface obs source: MS427 35 00 S 165 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

PERCENT OCCURRENCE	OF E	<u>инни</u>	CED	SURF!	HCE-	10-SI	<u>URF AL</u>	CE RI	HUHR	ESM.	<u>/Com</u>	RRN	5E5:		
FREQUENCY	Y	EARL'	Y "	J	AN-MA	AR	Ri	PR-JU	אנ	J	JL-SI	ĒΡ	0	CT-DI	EC
L	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	- 0	1	3	_ 0	1	2	0	1	_1	- 8	1	2	0	1
1 GHz	24	6	15	32	7	20	24	5	14	16	4	10	25	6	16
3 GHz	31	. 8	20	41	11	26	32	7	19	22	6	14	31	8	_20
6 GHz	56	• 32	44	64	38	51	58	35	47	49	27	38	51	27	39
10 GHz	78	66	72	82	78	76	82	69	75	78	69	73	71	56	63
20 GHz	86	80	83	88	83	86	89	_84	_86	87	83	85	80	71	76

SURFACE BASED DUCT SUMMARY: JAN-MAR APR-JUN PARAMETER YEARLY JUL-SEP OCT-DEC day nit dan day nit dan day nit dan day nit dan day nit dan Percent occurrence 7 17 9 9 5 13 .30 .23 .32 AVG thickness Kft .34 .30 AVG trap freq GHz .93 .58 1.2 1.1 .89 AVG lyr grd -N/Kft 136 184 193 139 116

ELEVATED DUCT SUMMARY: PARAMETER YERRLY JAN-MAP APR-JUN JUL-SEP OCT-DEC day nit dan day nit dan day nit d&n day nit dan dav nit dan Percent occurrence 8 15 32 15 33 24 26 13 AVG top ht Kft 5.5 5.5 5.4 5.9 5.9 AVG thickness Kft .36 .46 .34 .26 .37 .49 AVG trap freq GHz . 60 .40 .66 .84 AVS lyr grd -N/Kft 60 56 58 60 64 AVG lyr base Kft 5.2 5.1 5.8 4.7 5.1

EVAPO	RAT	ION :	DUCT HIS	TOGI	RAH 1	IN PI	RCE	NT 01	CUR	RENCE	E:							
PERC	ENT	000	URRENCE	YI	EARL	Ŷ	J	AH-MI	R.	Al	R-J	UN	J	JL-SI	ĒΡ	00	T-DE	C
				day	nit	den	day	nit	dån	day	nit	d&n	day	nit	d&n	day	nit	d&n
-	to	18	Feet	11	12	11	10	11	10	8	19	9	8	8	8	16	19	17
18	to	20	Feet	6	8	7	4	8	6	5	6	5	7	9	8	7	10	9
26	10	30	Feet	9	14	12	7	13	_10	9_	_ 15	12	10	14	12	10	15	13
36	to	40	Feet	12	17	14	10	15	13	12	16	14	16	28	18	11	15	13
46	to	59	Feet	13	17	15	11	16	14	15	17	16	14	21	18	11	14	12
56	to	68	Feet	_ 11_	13	12	10	14	12	14	15	14	13	13	13	9	11	10
66	10	70	Feet	9	7	8	9	8	9	9	- 8	9	10	5	8	8	5	6
78	t to	88	Feet	6	4	5	7	5	6	6	5	6	6	2	4	4	3	3
86	to	98	Feet	_ 3	2	2	ا ا	2	3	3_	2	2	_3	1	_ 2	3	. 1	2
96	to	100	Feet	2	1	2	3	1	2	3	1	2	2	6	1	2	1	1
at	ove	100	Feet	18	6	12	24	7	16	17	5	11	12	4	8	20	6	13
Mea	n h	e i gh	t Feet	66	44	55	77	48	62	66	45	55	57	42	50	63	48	51

GENERAL METEOROLOGY SUMMARY: PARAMETER YEARLY JAH-MAR APR-JUN JUL-SEP OCT-DEC day nit dan day nit dan day nit dan day nit dan day nit dan % occur EL&SB dcts 2 % occur 2+ EL dcts 2 3 1 0 RVG station N 338 350 337 326 339 AVG station -H/Kft 15 17 15 14 16 AVG sfc uind Kts 14 15 15 16 16 16

Specified location:

31 31 S 159 94 E

Radiosonde source : 94995 31 31 S 159 04 E Radiosonde station height: 151 Feet Surface obs source: MS428 35 00 S 155 00 E

PERCENT	OFFORKEHTE	UF E	инни	FD.	SUPF	41 E -	10-51	<u>UPFH8</u>	, E KI	אמער	/E3H	CUN	KHM	<u>. 63:</u>		
FR	EQUENCY	Y	EHKL'	¥	J	H-HE	R	Al	PR-JI	JN	31	UL-S!	EP	0	CT-DE	EC
L		day	nit	d&n	day	nit	d n	day	nit	d&n	day	nit	d&n	day	nit	dun
100	9 MHz	2	0	1	3	8	1	2	8	1	1	0	1	2	9	1
1 :	l GHz	23	7	15	32	9	21	21	7	14	14	5	9	25	7	16
L :	3 GHz	32	11	22	44	15	29	33	13	23	21	8	15	32	10	21
	S GHz	61	42	52	72	58	61	63	46	55	54	39	46	57	35	46
10	3 GHz	83	74	79	85	78	82	86	76	81	83	75	79	78	67	73
20	0 GHz	98	85	87	90	86	88	92	87	89	91	86	89	85	. 79	82

(*) INDICATES INSUFFICIENT DATA

SURFACE BASED DUCT SUMMARY:

JOHN NEE BUSED DOCK															
PARAMETER	Y	ARL'	r	J	AH-M	RR	l Ai	PR-JI	JH	Jι	JL-SE	P	0	CT-DI	EC
	day	nıt	<u>d&n</u>	day	nıt	<u>d£</u> n	day	nit	d&n	day	nıt	₫&n	day	nit	d&n
Percent occurrence	14	0	7	17	- 0	9	17	. 0	9	9	0	5	13	9	7
AVG thickness Kft			.30			. 34	1		.38	l		.23	ļ		.32
AVG trap freq GHz			.93	1		.58	1		1.2	1		1.1	1		.89
AVG lyr and -N/Kft			136			104	l		193			130			116

ECEANIED DACI SOWNER	(Y;														
PARAHETER	Y	EARL'	Y	31	AH-MI	AR	AI	PR-JI	UH	31	ÚL-SI	EP	00	CT-DI	EC
	day	nit	d&r.	day	nıt	dån	day	nit	d&n	day	nıt	d&n	day	nit	d&n
Percent occurrence	21	8	15	3.	9	16	15	33	24	11	8	6	2€	0	13
AVG top ht Kft			5.5	ľ		5.5	l		5.4			5.9			5.0
AVG thickness Kft			.36		_	.46	i		. 34			. 26	i.		.37
AVG trap freq GHz			- 60			.40			.€6			.84			.49
AVG lyr grd -N/Kft			60			56	l		60	l		64	l		58
AVG lyr base Vft			5.2	_		<u>5.</u> 1	_		5.1			5.8			4.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT O	CCURRENCE	YE	ARL	Ý	J:	AH-HI	AR	អ	R-JI	JH	J	JL-SE	P	00	7-DE	C
		day	nit	d&n	da	nit	dån	day	nit	d&n	day	nıt	d&n	day	nit	d&n
0 to 1	0 Feet	7	8	8	8	8	8	6	7	6	6	7	- 6	11	12	11
10 to 2	8 Feet	-4	7	5	4	6	5	3	6	5	5	7	6	5	7	6
28 10 3	0 Feet	7	10	9	5	- 8	7	7	11	9	9	11	10	8	:2	10
30 to 4	0 Feet	11	14	12	3	12	10	11	13	12	13	16	15	11	15	13
40 to 5	0 Feet	14	18	16	9	16	13	15	17	16	18	21	19	13	17	15
50 +∪ €	0 Feet	13	15	14	12	16	14	15	16	15	1€	17	16	11	12	12
60 to 7	0 Feet	11	10	10	11	11	11	11	11	11	11	9	10	9	8	9
70 to 8	0 Feet	8	6	7	9	8	9	8	7	7	7	5	6	7	5	6
P of 98	0 Feet	5	3	_ 4	_€	4	_5	6	4	5	4	2	3	3	2	2
90 to 1	00 Feet	3	2	2	4	2	3	3	2	3	2	1	2	Z	1	1
abore 1	00 Feet	17	7	12	24	9	17	15	7	11	18	5	8	19	7	13
Mear rei	ght Feet	68	51	69	79	56	68	67	52	60	59	48	53	68	49	58

PARAMETER	Y	ARL'	Υ	Ji	AH-M	RR	AF	-R-JI	JH	Ji	JL-SE	P	00	T-DI	EC
	day	nit	d&n	day	n·Ł	d&n	day	nit	atn	day	nıt	dan	day	nit	dan
% occur EL&SB dcts			2			3			2			1			4
% occur 2+ EL dcts	i		1			2	i		8	ĺ		1	l		3
AVG station N			338	ł		350			337			326			339
AVG station -N/Kft			15	ŀ		17			15	ļ		14	i		16
AVG sfc wind Kis	16	15	15	15	15	15	16	15	:5	16	15	16	15	15	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMAPY

Specified location: 34 57 S 150 31 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source: 94750 34 57 \$ 150 31 E Radiosonde station height: 354 Feet Surface obs source: MS428 35 00 \$ 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

TENCETT COCONFERSE	<u> </u>			JUNI			J 15.1	21, IN	101111		<u> </u>	***	<u></u>		
FREQUENCY	Y	EARL'	Υ	J	คท-หเ	a R	- Al	PR-JI	JH_	JI	JL-SE	P	00	CT-DE	EC.
i	day	nit	den	day	nit	d&n	day	nit	d&n	day	nit	den	day	nit	din
100 MHz	0	1	1	1	- 0	- 0	0	3	2	0	0	0	1	- 0	9
1 GHz	18	10	14	26	9	18	16	17	17	11	5	8	21	7	14
3 GHz	27	15	21	37	15	26	25	28	26	17	8	12	27	10	19
6 GHz	58	45	52	68	59	59	58	57	58	51	39	45	54	35	44
10 GHz	81	76	78	84	78	81	84	82	83	81	75	78	76	67	72
20 GHz	83	85	87	89	86	88	98	98	90	99	86	88	84	79	82

SURFACE RASED DUCT SUMBARY:

-	OKFICE BIISED DOCT	3011111	15.10					_								
Г	PARAMETER	Ÿ	ENKL.	Ÿ	J	ลัท-ห	R R	AF	R-J	JN	J	UL-51	EP	Ö	CT-DI	EC
Ł		day	nit	dan	day	nit	d&n	day	nit	dŧn	day	nit	d&n	day	nit	dan
Γ	Percent occurrence	5	- 8	- 6	7	0	4	3	33	18	1	Ø	1	7	6	4
١	AVG thickness Kft			.18	i		.21	1		.18	Į		.19			, 13
I	AVG trap freq GHz	ĺ		2.1	1		2.5			2.5			1.1			2.1
L	AVG lyr grd -H/Kft			171	<u> </u>		176	<u> </u>		235			95			178

ELEVATED DUCT SUMMARY:

FTEAMIEN DOCT SOMUMI	CY:														
PARAMETER	Y	EARL'	Y	J	AH-MI	RR	Al	P-J1	JH	J	JL-SI	EP	01	CT-DI	EC .
	day	nit	d&n	day	nıt	d&n	day	nit	d&n	day	nit	dŧn	day	nit	d&n
Percent occurrence	15	6	8	23	. 8	12	13	8	7	5	0	3	19	8	18
AVG top ht Kft	ĺ		6.0	[6.5	Į.		5.8	[5.3	ſ		6.4
AYG thickness Kft	L		.29	Ĺ		.40			.23	L		.32	l		.21
AVG trap freq GHz			1.1	Γ		. 45			1.2			1.2			1.5
AVG lyr grd -N/Kft			59	ı		61	l		58			59	1		53
AVG lyr base Kft	Ĺ		5.8			6.2	l		5.6	Ĺ		5.0	L		6.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	occu	RRENCE	Y	ARL	7	J	N-MF	ìR	AI	R-JI	JH	J	JL-SI	P	00	CT-DE	C
			day	n1t	dŧn	day	nit	din	day	nit	d&n	day	nit	d&n	day	nit	dun
0 to	18	Feet	7	3	8	8	8	8	6	7	6	5	7	6	11	12	11
10 to	28	Feet	4	7	5	4	6	5	3	6	5	5	7	6	5	7	6
28 10	30	Feet	7	10	9	5	8	7	_7	11	9	9	11	10	8	12	10
30 to	49	Feet	11	14	12	8	12	16	11	13	12	13	16	15	11	15	13
48 to	50	Feet	14	18	16	9	16	13	15	17	16	16	21	19	13	17	15
58_to	69	Feet	13	15	14	12	16	14	15	16	15	16	17	16	11	12	12
69 to	70	Feet	11	10	19	11	11	11	11	11	11	11	9	10	9	8	9
70 to	89	Feet	8	6	7	9	8	9	8	7	7	7	5	6	7	5	6
80 to	90	Feet	5	3	4	6	4	5	6	4	5	4	_ 2	3	3	2	2_
99 to	166	Feet	3	2	2	4	2	3	3	2	3	2	1	2	2	1	1
above	100	Feet	17	7	12	24	9	17	15	7	11	10	5	8	19	7	13
Hean he	1 ght	Feet	68	51	60	79	56	68	67	52	68	59	48	53	68	49	58

PARAMETER	YE	ARL	7	JF	N-M	RR	AF	Ř-JI	14:	Jl	IL-SI	ΕP	00	T-DE	EC
	day	nit	dan	day	nit	ժ <u>եր</u>	day	nit	dkn	day	nit	d&n	day	nit	dŁn
% occur EL&SB dcts			0			9			6			0			0
% occur 2+ EL dcts	1		1	ĺ		2			9	1		1			8
AVG station N			323	Į		336	i		322			310			322
AVG station -N/Kft			13	i		14	Ī		13			12	l		13
AVG sfc wind Kts	16	15	15	15	15	15	16	15	15	16	15	16	15	15	15

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32 49 S 151 49 E (*) INDICATES INSUFFICIENT DATA Specified location:

Radiosende source : 94776 32 49 S 151 49 E

Radiosonde station height: 30 Feet Surface obs source: MS428 35 00 S 155 00 E

PERCENT ACCUIPMENCE OF ENHANCED SUPERCE-TO-SUPERCE PADAP/ESM COM PANCES:

_																	
1	FRE	RUENCY	Y	EARL'	Y	Ji	AN-M	R T	คา	R-JI	UN	JU	11-51	EP	0	CT-DI	EC
L			day	nit	d&n	day	nit	den	day	nit	dan	day	nit	d&n	day	nit	d&n
Г	100	MHz	9	1		1	1	1	9	1	1	0	0	- 0	9	2	1
ļ	1	GHz	18	11	15	26	13	19	16	10	13	11	6	8	21	14	17
	3	GHz	26	16	21	37	19	28	25	17	21	17	9	13	26	19	22
Г		GHz	57	46	52	68	53	60	58	49	54	51	48	45	53	42	47
1	19	GHz	81	76	79	84	79	82	84	77	81	81	76	79	76	71	73
i	20	GHz	88	86	87	89	87	88	98	88	83	98	87	88	84	82	83

SUPFACE BASED DUCT SUMMARY:

PARAMETER	71	EARL'	Υ	J	AH-MI	AR	Al	-R-J	JN	J1	JL-SI	F	00	T-D	EC
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	din	day	nit	dan
Percent occurrence	3	7	5	4	- 6	5	2	7	5	1	3	2	3	12	8
AVG thickness Kft	ŀ		.31	•		.28	1		.34	•		.27	1		.35
AVG trap freq GHz			.87	i		. 57			.80			1.4	l		.67
AVG lyr grd -N/Kft	L.		130			105			208			287			120

ELEVATED DUCT SUMMARY:

PARAHETER	Y	EARL	۲	31	AH-M	R.	À	R-J	אנ	31	IL-S	EP	01	CT-DI	EC
	day	nit	dŧn	day	nit	dan	day	njt.	dan	day	nit	d£n	day	nit	dŧn
Percent occurrence	12	13	12	18	24	21	9	11	10	6	6	6	13	11	12
AVG top ht Kft	l		5.3	1		6.2	i		4.6	l		6.0]		4.6
AVG thickness Kft			.31			.39	l		.24	İ		.22	ļ		. 37
AVG trap freq GHz			.87			.47			.87			1.5			.66
AVG lyn grd -N/Kft	l		59	ł		58	l		59	l l		60	i		58
AVG lyr base Kft	l		5.1	i		5.9	1		4.4	1		5.8	1		4.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCL	RRENCE	Y	ARL	f	J	H-HP	R	A	R-J	JH	J	UL-SI	EP	0:	CT-DE	EC
			day	211	ರ೭ ಇ	day	nit	din	day	ritt	d&n	day	nit	den	day	nit	d&n
9 10	10	Feet	7	8	\$	8	8	- 8	€	7	6	6	7	6	11	:2	11
18 60	20	Feet	4	7	5.	4	6	5	3	6	5	5	7	6	5	7	6
20 to	38	Feet	7	10	9	5	8	?	7	1:	9	و	11	10	ક	12	10
30 to	40	Feet	11	14	12	ε	12	10	11	13	12	13	16	15	11	15	13
46 tc	58	Feet	14	18	16	9	16	13	15	17	16	18	21	19	13	17	15
50 to	60	Feet	13	15	14	12	i6	14	15	16	15	16	17	16	11	12	12
68 to	7e	Feet	11	10	18	111	11	11	11	11	11	11	9	18	9	8	9
70 : 0	68	Feet	8	6	7	9	8	9	8	7	7	7	5	6	7	5	6
88 to	98	Fret	5	3	4	6	4	5	6	4	5	4	2	3	3	2	2
98 to	100	Feet	3	2	2	4	2	3	3	2	3	2	1	2	2	1	Ĩ
above	100	Feet	17	7	12	24	9	17	15	7	11	10	5	8	19	7	13
Hean he	· ghi	Feet	68	51	50	79	56	68	67	52	60	59	48	53	68	49	58

PARAME TER	YE	ARL	8	31	H-H	AP.	AF	R-JI	N	Jŧ	JL-SE	F	01	CT-DI	EC
	day	211	din	day	nit	d&n	day	nit	din	day	nit	den	day	nit	₫₽n
% occur EL&SB dcts	l		1			1			1			9			ī
% occur 2+ EL dcts	ì		1	İ		2	l		1			8	i		1
AVC station N			332	}		346	l		329			320	i		332
AVG station -N/Kft	į		14	1		15			14			13	l		14
AVG sfc wind Kts	16	15	15	15	15	15	16	15	15	1€	15	16	15	15	15

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

37 52 S 144 45 E (+) INDICATES INSUFFICIENT DATA Specified location:

Radiosonde source : 94865 37 52 S 144 45 E

Radiosonde station height: 46 Feet

Surface obs source: MS430 35 80 S 135 80 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

LKCENT OCCORRENCE	<u> </u>	******	<u>, 415</u>	3061	1106	0 3	3KF 110	SE K	I Dille	C-311	COLL	Kon	160.		
FREQUENCY	Y	EARL'	Y	J	AN-HI	R R	AI	PR-JI	אט —	- 31	UL-SI	E5	O	CT-DI	EC
1	day	nıt	d&n	day	nit	d&n	day	nit	d&n	day	nit	din	day	nit	din
186 MHz	1	1	1	1	1	1	1	1	1	1		1	1	1	1
1 GHz	15	8	11	24	10	17	9	8	8	7	5	6	19	9	14
3 GHz	19	11	15	29	_ 13	21	12	18	_11	11	7	_ 9	24	12	18
6 GHz	41	26	34	55	33	44	36	28	32	29	21	25	42	24	33
10 GHz	74	64	69	82	70	76	71	66	69	71	63	67	72	59	66
20 GHz	87	82	85	91	84	87	86	83	85	87	84	85	85	79	82

SURFACE RASED DUCT SUMMARY:

PARAMETER	YER	RLY		Ji	AN-M	AR	AI	R-31	JN	J	JL-SI	EP	Q	CT-E	EC
L	day n	nit	dlin	day	nit	din	day	nit	dŧn	day	nit	din	day	nit	d&n
Percent occurrence	6	8	7	6	7	7	5	8	7	4	5	- 5	7	10	9
RVG thickness Kft			.29			.32	ı		.26			-29	j		.28
AVG trap freq GHz			.92	1		.63	1		1.1			. 95	į		1.0
AVG lyr grd -H/Kft			124			94			94			192	l		116

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	<u> </u>	JI	RN-N	RR _	Al	R-J	บห	J	JL-SI	E P	Ö	CT-DI	EC
	day	nit	d&n	day	nit	din	day	nit	din	day	nit	dtn	Jay	nit	din
Percent occurrence	16	19	17	2.4	33	29	10	13	12	8	9	9	28	22	21
AYG top ht Kft	ļ		5.9	l		5.1	t		5.4			4.9	ı		4.7
AVG thickness Kft			.25	l _		. 35	L		. 22	l		- 28			25
AVG trap freq GHz			1.2			. 59			1.7			1.6			1.1
RVG lyr grd -N/Kft			59	l		55	l		68	i		62	l		58
AVG lyr base Kft			4.8			4.8			5.3	}		4.7			4.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCE	HT	OCCI	URRENCE	YE	ARLY	· · · ·	JI	RN-M	R	RI	₹R-JI	JH.	31	JL-S	P	00	T-DE	C
				day	nit	din	day	nit	din	day	nit	din	day	nit	din	day	nit	din
-0	10	10	Feet	6	7	7	5	- 6	6	6	?	ε	6	7	6	7	10	9
18	to	28	Feet	7	11	9	5	11	8	8	10	9	8	l i	9	8	13	11
20	to	30_	Feet	14	19	17	10	15	13	15	19	17	17	22	13	14	21	18
38	to	48	Feet	17	23	20	13	21	17	17	22	20	22	25	23	17	24	21
48	tc	58	Feet	18	17	17	:6	19	17	19	18	19	21	19	26	15	13	14
_ 59	to	60	Feet	12	10	_11	13	11	_12	15	11	_13	12	19	_ 11	18	8	9
60	to	70	Feet	6	4	5	ि	7	8	6	- 5	6	5	3	4	ε	3	*
70	to	89	Feet	4	2	3	5	3	4	3	2	3	3	1	2	3	1	2
89	to	90	Feet	2	1	1	3	1	2	2	1	1	2	1	_ 1	2	1	1
98	10	180	Feet	1	0	1	2	ī	1	ī	8	1	1	8	1	2	9	1
abo	ove	188	Feet	12	4	8	21	6	13	7	4	5	5	3	4	16	4	18
Hear	a h	e i ahi	i Feet	56	48	48	71	44	58	48	42	45	45	37	41	69	38	49

PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
L	day nit dan	day nit dan	day nit dan	day nit_din	day nit dan
% occur EL&SB dcts	1		1	1	1
% occur 2+ EL dcts	2	2	1	1	3
AVG station H	327	333	328	322	325
AVG station -N/Kft	14	15	15	14	14
AVG sfc wind Kts	15 14 14	13 12 13	15 14 15	17 16 17	14 13 13

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 34 57 S 138 31 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 94672 34 57 S 138 31 E

Radiosonde station height: 20 Feet Surface obs source: MS430 35 00 S 135 00 E

PERCENT ACCURRENCE AS ENHANCED SURFACE-TA-SURFACE RADAR/ESM/CAM RANGES:

SERCENT OFFORKENCE	UF E	инни	FFB.	POKE.	HLE-	10-51	THEH	LE K	HUHK	<u> (ESN</u>	<u>/LUM</u>	KHMI	<u> 125:</u>		
FREQUENCY	Y	EARL	Y	J	คห-หเ	AR	Al	PR-JI	אע	J	JL-SI	EP	0	CT-DI	EC
	day	กาเ	dŁn	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	dŁn
100 MHz	1	1	1	1	2	1	1	1	1	0	1	1	1	1	1
1 GHz	15	9	12	25	11	18	9	9	9	7	6	6	19	8	14
3 GHz	19	. 11	15	30	15	23	12	12	12	18	7	9	24	. 11	17
6 GHz	41	27	34	55	35	45	36	38	33	29	21	25	42	23	33
16 GHz	74	65	69	82	71	76	71	66	69	71	63	67	72	59	65
28 GHz	37	83	85	91	85	88	86	84	85	87	84	85	85	_78	82

SUPFACE BASEN DUCT SURMARY.

PARAHETER	Y	ARL'	Y	J	AN-M	R	e.	R-J	JH	J	JL-SI	P	0	CT-DI	EC
	day	nit	dan	day	กระ	d&n	day	nis	đần	day	nit	đần	day	nit	dan
Percent occurrence	6	9	7	8	10	9	4	10	7	4	6	5	7	9	8
AVG thickness Kft			.26	İ		.26	Į.		. 25	İ		.26			. 25
AVG trap freq GHz			1.8	i		. 65	1		.84			1.4	ı		1.1
AVG lyr grd -H/Kft			1:6	<u> </u>		135			94			182			134

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PARAMETER	Y	EARL'	Y	JI	AN-M	R.	A	PR-J1	UH	Jŧ	JL-SI	P _	G	T-DI	EC_
	day	rit	dan	day	nit	d£n	day	nit	dŁn	day	nıt	din	day	nit	den
Percent occurrence	15	14	14	21	20	21	11	13	12	8	8	8	19	13	16
AVG top ht Kft			4.8	ĺ		4.7	l		4.6	l		5.2	i		4.5
AVG thickness Kft	<u> </u>		.31	i _		.31	l		.31	į		.30			.33
AVG trap freq GHz			.62			.51	1		.66			.73			.59
RVG lyr grd -N/Kft	i		58	ì		61	İ		56	i		56	į .		68
AVG lyr base Kft	1		4.5	1		4.5	i		4.4	l		4.9	I		4.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	į YI	ERRL'	Y	3	AH-K	AR .	A	ペーノし	JH	31	UL-SI	EP	01	CT-D!	EC
	day	nit	dtn	day	nít	d&n	day	nit	d£n	day	nit	dtr	ďay	nit	átn
0 to 10 Feet	6	7	7	5	6	6	6	7	- 6	6	7	- 6	7	10	9
10 to 20 Feet	7	11	9	5	11	8	8	18	9	8	11	9	8	13	11
20 to 30 Feet	14	19	17	16	15	13	15	19	17	17	22	19	14	21	18
30 to 40 Feet	17	23	20	13	21	17	17	22	20	22	25	23	17	24	21
40 to 50 Feet	18	17	17	16	19	17	19	18	19	21	19	20	15	13	14
50 to 60 Feet	12	10	_11	13	11	12	15	11	13	12	10	11	10	8	9
60 to 70 Feet	5	4	5	9	7	8	6	5	6	5	3	4	6	3	4
78 to 20 Feet	4	2	3	5	3	4	3	2	3	3	1	2	3	1	2
80 to 98 Feet	2	_ 1	1	3	1	2	2	1	1	2	1	1	2	1	1
90 to 100 Feet	1	0	1	2	1	1	1	G	1	1	0	1	2	9	1
above 180 Feet	12	4	8	21	6	13	7	4	5	5	3	4	16	4	10
Mean height Feet	56	40	48	71	44	58	48	42	45	45	37	41	68	36	49

YEARL	Y	J6	rn-Kf	R I	คร	アーナリ	JN	J(JL-SE	EP	ຄ	CT-DI	EC
day nit	dŁn	day	nit	d&n	day	nit	dkn	day	nıı	dtn	day	nit	din
	1			1			1			1			1
l	1	į .		2			8	l		8			2
l	323			324			324	1		323			320
i	13			13			13	1		13			13
15 14	14	13	12	13	15	14	15	17	16	17	14	13	13
	day nit	day nit din 1 1 323	day nit dtn day 1 1 323	day nit dan day nit 1 1 323	day nit dtn day nit dtn 1 1 1 2 323 324	day nit din day nit din day 1 1 2 323 324	day nit dtn day nit dtn day nit 1 1 2 323 324	day nit dan day nit dan day nit dan 1 1 1 1 1 2 0 323 324 324	day nit dtn day nit dtn day nit dtn day 1 1 1 1 1 2 0 0 323 324 324	day nit dtn day nit dtn day nit dtn day nit 1 1 1 1 2 0 323 324 324	day nit dan day nit dan day nit dan day nit dan 1 1 1 1 1 1 1 1 1 1 1 1 1 2 0 0 0 0 323 324 324 323 324 324 323 324 324 323 324 324 323 324 324 323 324 3	day nit dtn day nit dtn	day nit dan day nit dan day nit dan day nit dan day nit day nit dan day nit day nit dan day nit day nit day nit day nit day nit 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 0

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

(*) INDICATES INSUFFICIENT DATA 33 49 S 121 52 E Specified location: 33 49 S 121 52 E Radiosonde source : 94638 Radiosonde station height: 79 Feet 35 00 S 125 00 E Surface obs source: MS431

PEDCENT OCCUPATION OF ENHANCED SUPERCE-TO-SUPERCE DASAD/ESM/COM DANCES.

FERCEN!	UCCOKKENCE	Ur E	nnnn	<u>, עשו</u>	POKE	nce-	(0-3	UKFR	E K	TUNK.	<u> 2311</u>	COIL	KRIN	<u> </u>		
FRE	DUENCY	Y	EARL'	Y	J	AH-M	AR	A	PR-JI	JH	Ji	JL-SI	P	0	CT-DI	EC
Ĺ		day	nit	d&n	day	_nit	dŁn	day	nit	dŁn	day	nit	din	day	nit	dŁn
100	MHz	0	0	Ø	0	0	- 8	0	0	8	0	- 0	8	1	- 0	9
1	GHz	12	5	9	17	6	12	9	4	7	7	3	5	17	6	11
j3	GHz	16	6	11	22	8	15	_12	5	9	9	4	6	21	7	14
6	GHz	40	24	32	49	29	39	39	28	34	30	20	25	42	21	32
10	GHz	74	65	69	79	71	75	75	69	72	78	61	65	71	58	65
20	GHz	87	83	85	89	86	88	88	86	87	86	80	83	85	79	62

SURFACE BASED DUCT	SUMMI	RY:													
PARAMETER	YI	EARL'	*	31	AN-M	RR	R	PR-J	אע	31	UL-S	EP	00	(T-D	EC
	day	nit	d&n	day	nit	dan	day	nit	d&n	day	nit	dkn	day	nit	d&n
Percent occurrence	2	9	1	1	0	1	1	Ð	1	2	Ð	1	5	- 0	_3
AVG thickness Kft	ļ		. 29	j		.18	ļ		.44	ļ		.30	}		.25
AVG trap freq GHz	l		2.1	ļ		3.7	i		.32	i .		2.8	ł		1.7
AVG lyr grd -N/Kft	<u> </u>		124	Ĺ		183	ł		107	L.,		136	L		70

ELEVATED DUCT SUMMARY:

PARAMETER	YI	CARLY	•	J:	AH-H	AR	į Ri	PR-J	UN	J	UL-SI	EP	0	CT-B	EC
	day	nit	<u>d&n</u>	day	nit	d£n	day	กาะ	din	day	nit	din	day	nit	_d&n
Percent occurrence	21	8	11	42	9	21	15	- 8	8	9	0	5	18	- 0	9
AVG top ht Kft	ļ		4.7	1		4.9	l		4.9	1		5.7	ĺ		3.2
RVG thickness Kft	<u> </u>		.28	i		.39	<u> </u>		.26	l		.16			.38
RVG trap freq GHz			1.5			.44			1.3			3.3			.77
AVG lyr grd -N/Kft	l		56	i		62	l		58			48			56
AVG lyr base Kft	<u> </u>		4.5			4.7	<u> </u>		4.7	<u> </u>		5.6	L		2.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCI	URRENCE	Y!	EARLY	7	3	AH-H	RR	R	PR-J	UN	J	UL-S	EP	0	CT-D	EC
			day	nit	d\$n	day	nit	din	day	nit	děn	day	กit	din	day	nis	đin
0 10	18	Feet	5	6	6	5	6	6	4	4	4	5	6	- 6	7	9	8
18 to	28	Feet	8	11	9	6	8	7	8	9	8	9	13	11	9	13	11
20 to	38	Feet	14	18	16	18	16	13	14	17	16	17	19	18	14	28	17
30 10	43	Feet	17	22	19	14	21	17	18	22	20	28	24	22	14	21	18
48 to	50	Feet	17	19	18	16	21	18	18	20	19	19	18	19	16	16	16
59 to	68	Feet	13	11	12	13	12	13	14	13	13	13	10	12	11	9	10
60 to	70	Feet	8	5	6	9	- 6	7	9	7	8	6	4	- 5	7	3	5
78 to	89	Feet	, 4	2	3	5	4	4	5	3	4	2	2	2	4	1	3
88 to	98	Feet	_ 2	1	1	3	1	_ 2	1	1	1	1	8	1	2	1	2
98 to	100	Feet	1	i	1	2	1	1	1	1	1	0	6	0	2	- 9	1
above	100	Feet	12	5	8	17	6	11	8	4	6	6	3	5	15	6	10
Hean he	i gh	t Feet	56	42	49	65	46	55	53	44	48	46	39	42	60	48	_ 50

PARAMETER	l YE	HRL	Y	Ji	1N-H	AR	n AF	'R-J	UN	Jį	ルーミ	EP	00	:T-DE	≟C
	day	nit	din	day	nit	dŁn	day	nit	din	day	การ	dŧn	day	nit	din
% occur EL&SB dcts			Ö			0			0			1			0
% occur 2+ EL dets	ļ		2	ļ		5	ļ		1			0	İ		2
AVG station H	l		326	l		338	ļ		325			321	l		326
AVG station -N/Kft			13	1		14	i		13			13	i		14
TVG sfc wind Kts	_15_	14	14	13	12	13	15	14	_15	17	16	16	14	12	13

(*) INDICATES INSUFFICIENT DATA Specified location: 34 57 S 117 48 E 34 57 S Radiosonde source: 94802 117 48 E

Radiosonde station height: 223 Feet

Surface obs source: MS432 35 00 S 115 00 E

PERCENT OCCUPRENCE OF ENHANCED SUPERCE-TO-SUPERCE RADAR/FSH/COM RANGES:

FREQ	UENCY	Y	ARL	· ·	JF	H-HF	1R	H1	R-JI	H	J	JL-SE	EP	01	CT-DE	EC
		day	nit	đěn	day	nıt	din	day	nit	dŧn	day	nit	d&n	day	nit	dan
100	MHz	1	-0	9	1	0	- 6	1	- 6	0	Ø	0	θ	2	0	1
1	GHZ	16	5	11	21	7	14	13	6	10	10	3	6	21	5	13
3	GHz	24	8	16	31	11	21	22	18	16	15	5	10	28	7	18
6	GHz	58	41	58	63	44	54	60	48	54	50	37	44	58	37	48
10	GHZ	87	80	83	87	89	83	89	83	86	86	88	83	86	77	82
29	GHz	94	91	93	93	98	92	95	93	94	95	92	93	94	91	93

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Electric processes and a processes of

SURFACE BASED DUCT S	IMMUS	RY:				_				_					
PARAMETER	YI	EARLY	'	J	AN-M	AR	A	PR-J	אנו	Jŧ	JL-SI	P	01	CT-DI	EC
	day	nit	din	day	nit	d&n	day	nit	dkn	day	nit	dŁn	day	nit	d&n
Percent occurrence	9	- 0	4	9	0	- 5	9	- 0	5	- 5	9	3	12	0	6
AVG thickness Kft	l		.24	ł		.30	}		.17	i		.24	i		.26
AVG trap freq GHz	l		1.7			1.6	•		1.8	l		2.4	1		.95
AVG lyr grd -N/Kft			143	L		92			160			200	<u> </u>	_	119

ELEVATED DUCT SUMMAI PARAMETER		EARL'	7	Ji	AN-MI	12	AI	R-JU	JH	J	JL-SE	P	Ů	T-DI	C
	day	nit	din	day	nít	dån	day	nit	d&n	day	nit	đần	day	nit	d&n
Percent occurrence	25	8	12	37	0	19	18	0	9	12	0	6	32	8	16
AVG top ht Kft			5.3			4.6	ĺ		5.2			5.5	1		4.6
AVG thickness Kft			.33	į		.44	ļ		.27	i		.28	i		.33
AVG trap freq GHz			.68			.40			.79			.87			.69
AVG lyn grd -N/Kft	ĺ		59	l		60	l		64			57	1		55
AVG lyr base Kft	!		4.7	l		4.2	1		5.0			5.2	i		4.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCI	IRRENCE	Y	EARL	7	31	RN-M	RR	RI	-R-J	UN		UL-SI	EP	00	CT-DI	EC
			day	nit	d&n	day	nit	d&n	day	nit	dan	day	nit	dŧn	day	nit	d&r:
0 to	10	Feet	3	3	3	4	4	4	2	3	2	2	2	2	4	3	3
10 to	20	Feet	3	5	4	4	5	4	3	4	4	3	5	4	3	6	5
20 <u>t</u> o	30	Feet	8	12	10	7	11	9	7	10	8	9	12	19	9	14	11
30 10	40	Feet	13	17	15	18	15	13	12	15	13	16	18	17	13	21	17
40 to	58	Feet	18	21	28	15	20	18	18	20	19	21	25	23	18	28	19
58 to	68	Feet	17	18	18	14	17	15	19	19	19	13	20	19	17	18	17
60 to	70	Feet	11	18	11	12	11	11	13	12	13	11	8	10	9	8	9
78 to	80	Feet	7	5	6	8	6	7	8	6	7	7	4	5	6	4	5
80 to	90	Feet	4	2	3	6	2	4	5	3	4	3	1	. 2	4	1	3
90 10	100	Feet	2	1	2	3	1	2	2	2	2	2	1	1	2	1	1
above	100	Feet	13	5	9	18	7	13	18	6	8	8	3	6	16	5	19
Hean he	ight	Feet	65	51	58	72	54	63	63	54	59	57	48	53	67	48	57

CENERAL METERPOLOCY SUMMARY.

PARAMETER		ARL'	,	7.0	H-H	20	0.5	R-JI	11.1	***					
			-								IL-SE			T-DI	
	dav	กาเ	dån	day	nıt	dŁn	day	nit	dan	day	nit	din	day	nit	ďan
% occur ELESP dcts			2			2			2			1			4
% occur 2+ EL dcts			2	i		3	İ		1	l		9	ŀ		3
RVG station N			329	į .		334			327			322	l		329
AVG station -N/Kft			15			15	i		14	ĺ		14			15
AVG sfc wind Kts	16	15	15	15	15	15	16	15	16	17	15	16	15	14	14

HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 31 55 S 115 58 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 94610 31 55 S 115 58 E

Radiosonde station height: 56 Feet Surface obs source: MS432 35 00 S 115 00 E

PERCENT OCCUPRENCE OF ENHANCES SUPERICE-TO-SUPERICE PARAP/ESH/COM PANCES

PERCENT	OCCURRENCE	OF E	<u>HAHH</u>	CED :	<u>SURF</u>	ACE-	TO-S	URFRI	CE RI	ADAR.	<u>/esh</u>	<u>/COM</u>	RAN	GES:		
FRE	QUENCY	TY	EARL	Υ	J	RH-M	AR	A	PR-J	UN	J	UL-S	EP	0	CT-DI	EC
L		day	nit	din	GAY	nit	d&n	day	nit	dån	day	nit	d&n	day	nit	<u>d&n</u>
166	HHz	1	1	1	1	1	1	1	1	1	0	1	1	2	Ø	1
1	GHz	16	8	12	21	10	15	12	10	11	: 10	7	8	21	7	14
3	GHz	23	12	18	30	14	22	20	16	_ 18	15	10	13	28	9	19
6	GHz	57	44	51	62	47	54	59	51	55	50	41	46	58	38	48
10	GHz	87	81	84	87	81	84	88	84	86	86	81	83	86	78	ઇ2
1 2A	GHZ	94	92	93	93	91	92	95	93	94	94	92	93	94	91	93

SUPERCE RASER DUCT SUMMARY:

IREPS REV 2.1

SOUTHER PHOED DOOL .	JOHENIK	<u></u>													
PARAMETER	YEA	RLY		Ji	ลห-หล	3R	Ai	R-JI	אנ	5	JL-SI	EP	- 00	CT-DE	C
	day n	11 (din	day	nit	d£n	day	nit	d&n	day	nit	d&n	day	nit	dŁn
Percent occurrence	6	6	9	6	5	6	5	9	7	3	8	- 6	10	3	7
AVG thickness Kft			.29			.29	1		.27	ļ.		. 31	ŀ		.31
AYG trap freq GHz			.98			.79	ļ		1.2	1		1.0	1		. 59
AVG ive and -N/Kft	[133	l	_	96	i		138	L		175			130

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Υ	J	ลห-หเ	R.	AI	PŖ-JI	ИL	31	JL-SI	EΡ	01	CT-DI	EC
	day	nit	dŁn	day	nit	d&n	day	nit	dŁn	day	nit	din	day	nit	dån
Percent oscurrence	21	23	22	32	37	35	15	19	17	12	15	14	24	19	22
AVG top ht Kft			5.1			4.8	ļ		5.3	l		5.5	1		4.6
AVG thickness Kft			.34	<u> </u>		.41	l		.33	L		.26	L		.35
AVE trap freq GHz			.63			.36			.66			.94			. 55
AVG lyr grd -N/Kft	i		68	1		61	i		60	l		58	l .		59
AVG lyr base Kft			4.8	ĺ		4.5	•		5.1			5.3	Ì		4.4

E "POPATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	CCCURRENC	E Y	EARL	Y	J	AH-H	AR	R	PR-JI	UN	31	UL-SI	P	VE	T-DI	C
		day	nit	d&n	day	nit	d&n	day	nit	dån	day	nit	dan	202	nit	dan
8 tc	18 Feet	3	3	3	4	4	4	2	3	2	2	2	2	1	3	3
19 to	20 Feet	3	5	4	4	5	4	3	4	4	įз	5	4	3	6	5
29 10	30 Feet	. 8	12	16	7	11	9	7	10	8	9	12	18	9	14	_11
30 to	48 Feet	13	17	15	18	15	13	12	15	13	16	18	17	13	21	17
40 to	50 Feet	1 18	21	20	:5	28	18	18	28	19	21	25	23	18	28	19
58 to	60 Feet	17	18	16	14	17	15	19	19	19	18	29	19	17	18	17
68 10	78 Feet	21	16	FZ	12	11	11	13	12	13	11	8	10	9	8	9
70 to	ee Feet	[7	- 5	5	! 8	6	7	ទ	É	7	7	4	5	6	4	5
88 tc	90 Fees	4	2	3	6	2	4	5	3	4	3	1	_ 2	4	1	3
99 to	100 Feet		1	2	3	1	2	2	2	2	2	1	1	2	1	1
above	100 Feet	į ¥3	3	9	18	7	13	18	6	8	8	3	6	16	5	10
Hean he	ight Feet	65	51	58	72	5-	#3	63	54	59	57	48	53	67	48	_57

PHRAMETER	YEN	RE	r j	38	: -4;	٠,٠,٠	HP	'R-31	JN	30	L-5E	P	00	T-DE	:C
	day n	112	d&n	4.4	2163	172.54	ysb	nit.	dŁn	day	nit_	din	day	nit	dan
% occur ELESB dcts			1			3			1			2			1
% occur 2+ EL dcts			2			4			8			1			2
AVG station H			326			325			328			325			324
AVG station -H/Kft			14			13			14			14	ĺ		14
AVG afc wind Kts	16	15	15	15	15	15	16	15	16	17	15	16	15	14	14

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 37 48 S 77 31 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 61996 37 48 \$ 77 31 E

Radiosonde station height: 89 Feet Surface obs source: MS402 25 00 S 55 00 E

DEDCENT OCCUPRENCE OF ENHANCED SUPER' SUFFREE BARAP/FSM/COM RANGES

PERCENT C	CCURRENCE	OF E	инви	CED S	SURF	a^	SU	FFR	E RE	ADAR.	ESM.	COM.	RANG	SES:		
FREC	QUENCY	Y	EARL	7	31	Ā.	7	AI	R-J	JH.	J	JL-\$1	Р	00	CT-DI	EC
.		day	nıt	d&n	day	nı	ı	day	nit	d£n	day	nit	dån	day	nit	dŧn
100	HHz	8	Ø	8	0	1		-0	0	0	8	6	6	1	θ	9
1	GHz	^3	9	21	38	11	251	27	8	18	25	6	15	42	18	26
] з	GHz	45	17	31	49	19	34	48	19	30	37	13	_25	52	16	34
6	GHz	77	58	68	79	61	70	78	62	70	75	57	66	78	58	64
19	GHz	93	87	90	93	88	90	93	88	91	93	88	90	92	85	89
20	GHz	96	95	96	97	94	96	96	96	96	97	95	96	96	93	94

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SURFACE BASED DUCT SUMMARY: OCT-DEC PARAMETER YERRLY JAN-MAR APR-JUN JUL-SEP day nit den day nit dan day nit dên day nit dan day nit d&n 2 2 1 2 Percent occurrence .29 . 15 AVG thickness Kft . 27 .54 .10 .74 AVG trap freq GHz 2.0 1.7 4.1 1.6 . AVG lyr grd -N/Kft 151 122 178 170

PARAMETER	Y	EARL'	ď	J	ลห-พเ	R	_ Ri	PR-J	UH	JI	リレーSE	ΕP	00	CT-DE	EC
_	day	กเเ	đ&n	day	nıt	d&n	day	nit	d&n	day	nit	din	day	nit	d&r
Percent occurrence	17	18	17	0	23	12	22	14	13	11	9	10	33	24	29
VS top ht Kft	•		4.5	l		4.7	i		4.2			4.3	I		4.
IVG thickness Kft	•		.37			.42	i		.32	l		.32	L		. 4
VG trap freq GHz			.78			.47			1.4			.93			- 3
VG lyr grd -N/Kft	l		58]		57	i		61	1		55	l		6
AVG lyr base Kft	ı		4.2	l		4.4	ı		4.0	l		4.0	i		4.

PERCE	HT	OCCL	RRENCE	YE	ARL	7	Ji	AN-M	R	Al	R-JI	JH	JI	JL-SE	P	00	CT-DE	C
				day	nit	d&n	day	nit	dån	day	nıt	d&n	day	nit	dŁn	day	nit	d&n
0	to	10	Feet	2	2	2	2	2	2	2	1	1	2	2	2	2	2	2
16	to	28	Feet	1	4	3	1	4	3	1	2	2	1	4	3	1	4	3
20	10	30	Feet	4	7	_6	4	7	5	3	8	5	4	7	5	4	8	6
39	to	40	Feet	6	12	9	5	11	8	5	10	8	8	12	10	-6	15	10
40	to	50	Feet	9	19	14	9	18	13	19	16	13	10	19	15	9	21	15
50	to	68	Feet	12	_18	15	11	18	14	14	17	_15	14	20	17	9	16	13
60	to	78	Feet	12	14	13	11	15	13	12	15	14	13	15	14	10	12	11
78	to	80	Feet	9	9	9	8	10	9	12	11	12	10	10	10	8	7	7
88	10	98	Feet	7	5	ε	7	4	5	_ 8_	6	7	9	5	7	5	3	4
90	\$0	100	Feet	5	3	4	5	3	4	6	4	5	4	2	3	4	2	3
abo	ve	166	Feet	33	8	20	28	9	23	27	8	17	25	6	15	41	10	25
Hear	h	e i aht	Feet	94	68	77	169	60	86	88	62	75	85	58	71	106	69	83

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YE	RRL'	Ý	31	AN-MI	1R	AF	R-JU	JИ	JU	JL-SE	EP.	00	CT-DE	EC
	day	nit	d&n	day	nit	dån	day	กาเ	d&n	day	nit	dŁn	dey	nit	dkn
% occur EL&SB dcts			9		•	i			8			8			3
% occur 2+ EL dcts	l		:			3	ŀ		1			1	l		1
AVG station N	i		334			348			336	l		328	ı		331
AVG station -N/Kft	!		14	İ		15	i		14	ļ.		13	i		13
AVG sfc wind Kis	13	12	12	14	13	13	13	12	13	14	12	13	11	16	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 29 58 \$ 30 57 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 68588 29 58 \$ 30 57 E

Radiosonde station height: 26 Feet Surface obs source: HS440 35 00 S 35 80 E

PERCENT OCCURRENCE OF ENHANCER SUPERCE-TO-SUPERCE PARADZESMZCOM RANCES:

PERCENT OCCORRENCE	<u> </u>	77777111		JUKE	HUE-	10-30	JAP NO	-E K	INUL	COL	CCII	KIM	363.		
FREQUENCY	Y	EARL	Υ	J	H-HA	AR	fif	- R-J(JN	Ji	JL-SI	P	30	T-DE	C
	day	nit	d£n	day	nit	d&n	day	nit	dan	day	nit	dan	day	nit	d&n
100 MHz	1	1	1	0	1	9	1	1	1	1	1	1	1	1	1
1 GHz	20	10	15	23	11	17	20	12	16	14	19	12	23	9	16
3 GHz	38	18	24	35	19	27	31	29	25	22	17	19	33	15	24
6 GHz	63	52	58	67	55	61	68	59	63	57	49	53	62	47	54
10 GHz	85	81	83	86	82	84	90	86	88	83	81	82	82	76	79
2€ GHz	92	90	91	92	89	91	95	94	94	92	91	91	89	86	88

SURFACE RASED DUCT SUMMERY:

PARAMETER	Y	ARL	7	J	AN-M	ìR	RF	R-JI	JH	JI	JL-S!	Р	0	CT-DI	EC
	day	nit	d£n	day	ni t	dŁn	day	n <u>i t</u>	d&n	day	nit	den	day	nit	dkn
Percent occurrence	5	7	6	4	6	5	5	6	6	3	7	- 5	8	8	8
AVG thickness Kft			.34			. 14			.36	l		.46	!		.38
AVG trap freq GHz			1.0			2.0			.58			.41	l		1.0
RVG lyr grd -N/Kft	Ĺ		187	L		208	i		168			211	l		161

ELEVATED DUCT SUMMARY:

EFEAUTED DOCT SOUGH	<u> </u>														
PARAMETER	Y	ARL'	Ÿ	J	AH-M	RR	AI	P-J	JN	Jl	JL-SI	P	00	CT-DI	EC
	day	nit	d&n	day	nit	dan	day	nit	d&n	day	nit	dan	day	nıt	d&n
Percent occurrence	8	9	- 8	11	17	14	5	7	- 6	4	5	5	11	5	8
AVG top ht Kft			4.3	ĺ		5.0	í		3.6			3.8			5.0
AVG thickness Kft	i		50			.50			.57	i_		.53	l _		39
AYG trap freq GHz		-	.50	1		.42			,36			.45			.77
AVG lyr grd -H/Kft	ĺ		59	1		58	l		59			61	ĺ		58
AVG lyr base Kft	i		4.0	<u></u>		4.6	<u>.</u>		3.1			3.4			4.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENC	EY	EARL'		J	ลห-หเ		AF	R-J	JH	J	UL-SI	EΡ	00	T-DE	Ç
	day	nit	d&n	day	nit	den	day	nit	den	day	nit	d&n	day	nit	dan
0 to 10 Feet	5	5	- 5	5	6	5	3	2	3	4	4	4	7	7	7
10 to 20 Feet	4	6	5	3	5	4	2	4	3	4	6	5	5	8	6
20 to 30 Feet	7	19	8	6	8	7	5	8_	7	8	11	18	8	12	10
30 to 40 Feet	9	13	11	8	12	16	9	12	19	11	15	13	9	15	12
40 to 50 Feet	13	17	15	11	16	14	14	17	16	16	19	17	12	16	14
50 to 60 Feet	14	16	15	13	16	14	15	18	16	15	16	16	12	14	13
68 to 70 Feet	12	13	12	11	14	12	14	14	14	12	11	12	10	12	11
70 to 80 Feet	9	8	8	9	7	ទ	10	9	10	8	7	8	8	7	7
80 to 98 Feet	6	4	5	7	4	6	6	5	_5	5	4	4	6	3	4
98 to 188 Feet	7 4	2	3	4	3	3	5	3	4	3	2	2	4	2	3
above 100 Feet	1 18	7	12	22	9	16	17	8	12	12	5	9	19	5	12
Hean height Feet	71	54	62	77	57	67	72	58	65	63	_51	57	71	50	68

OCHERNIE HETEOROGOGI	2011111111111111				
PARRHETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit dan	day nit din	day nit dan	day nit din
% occur EL&SB dcts	9	8	0	0	1
% occur 2+ EL dcss	9	1	9	9	8
AVG station N	348	365	348	332	354
AVG station -N/Kft	15	15	15	13	15
AVG sfc wind Kts	16 15 15	15 14 14	16 15 15	17 16 16	16 15 16

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 33 58 S 25 36 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 68842 33 58 S 25 36 E

Radiosonde station height: 226 Feet

Surface obs source: MS441 35 00 S 25 00 E

PERCENT OCCUPRENCE OF ENHANCED SUPFACE-TO-SUPFACE RADAP/ESH/COM RANGES:

PERCENT OLCOPRENCE	Ur E	UNITE	בבש	SURFI	4C E =	<u> </u>	JEF 131		י אחעור	E 3112	. C 011	P CIN	ue J.		
FREQUENCY	Y	EARL'	Y	Ji	AH-M	1R	Al	R-J	JN	J	JL-SI	EP	01	CT-DI	EC
	day	nit	d&n	day	nıt	dån	day	nit	d&n	day	nıt	d&n	day	nıt	din
100 NHz	1	0	0	1	0	0	1	0	0	1	8	8	1	8	8
1 GHz	20	8	14	23	9	16	22	11	16	16	7	11	20	5	12
3 GHz	28	13	20	32	14	23	36	16	23	23	10	17	27	9	18
6 GHz	57	41	49	58	43	51	59	44	51	55	40	47	56	38	47
10 GHz	88	71	76	77	68	72	82	74	78	82	74	78	79	70	75
20 GHz	88	83	86	84	79	81	98	85	88	91	86	89	88	83	_85

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL'	γ.	J	AH-M	iR .	A	R-J	JN	J	JL-SI	EP .	Ō	CT-DI	C
	day	nit	d&n	day	niţ	dan	day	nit	ď&n	day	nit	d&n	day	nit	d&n
Percent occurrence	5	0	2	8	0	4	4	0	2	3	9	2	4	0	2
AVG thickness Kft	ŀ		.36	i		.31	1		. 24			. 45	l		.43
AVG trap freq GHz			.72			1.4	1		.60			.51	l		.34
AVC lyr and -N/Kft			299			449	<u> </u>		194			244	<u>L</u> .		310

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	۲	7	M-HA	BR	- Al	PR-J	אני	J1	UL-S!	ĘP	00	CT-DI	C
	day	ri1t	d&n	dau	611	d&n	VAL	nit	dên	day	nit	d&n	day	nit	dan
Percent occurrence	6	6	3	13	0	7	4	0	2	2	- 0	1	4	8	2
AVG top ht Kft	ł		4.7			4.7	i		3.1	!		6.0	i		4.8
AVG thickness Kft			.42	<u> </u>		.52	l		.46	l		.35	i		. 35
AVG trap freq GHz			.80			.26			.51			1.9			.49
AVG lyr grd -N/Kft	İ		59	i		65	İ		56	l		55	}		59
AVG lyr base Kft			4.3			4.4	l		2.7	ŧ		5.7	l		4.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT C	CCURRENCE	YE	ARL	7	31	BH-M	AR .	RI	11-S	JH	31	UL-SI	EP	09	CT-DE	C
		day	nit	dån	day	nit	d&n	day	nit	d&n	day	nıt	d&n	day	nit	d&n
0 to 1	8 Feet	7	8	8	12	13	12	5	7	6	4	5	5	7	8	8
10 to 2	20 Feet	5	8	7	6	8	7	5	8	7	5	8	6	6	9	7
28 to 3	iO Feet	8	12	10	<u>i - 7</u>	11	- 9	8	12	10	10	12	11	9	13	11
30 to 4	18 Feet	11	14	13	9	12	10	11	15	13	13	16	14	11	15	13
40 to 5	0 Feet	13	16	15	111	13	12	13	15	14	15	19	17	13	17	15
50 to 6	0 Feet	12	14	13	11	13	12	12	12	12	13	15	14	12	14	13
60 to 7	70 Feet	10	9	ė	9	9	9	10	9	10	11	9	10	10	9	9
70 to 8	30 Feet	7	6	7	7	7	7	7	6	7	8	5	7	7	5	6
80 to 9	98 Feet	4	3	_ 4	5	3	4	5	3	4	4	2	3	4	2	3
90 to 1	00 Feet	3	2	2	3	2	3	3	2	3	3	1	2	3	1	- 3
above 1	100 Feet	18	8	13	20	9	15	28	11	15	15	7	11	17	5	11
Mean her	ght Feet	68	52	69	69	52	66	72	57	64	66	51	59	67	47	37

PARAMETER	YEARLY	JAN-HAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit din	day nit dan	day nit dan	day nit dan	day nit dan
% occur EL&SB dcts	8	1	1	8	9
% occur 2+ EL dcts	9	9	0	9	e l
AVG station N	335	348	334	324	334
AVG station -N/Kft	14	15	15	13	14
AVG sfc wind Pts	16 15 15	15 14 14	15 14 14	17 16 17	17 15 16

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

(*) INDICATES INSUFFICIENT DATA

 Specified location:
 35 00 S
 15 00 E

 Radiosonde source:
 68406
 28 34 S
 16 31 E
 Radiosonde station height: 89 Feet Surface obs source: NS442 35 00 S 15 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

CPCLITT OCCOR	PENCE OF E	*****		3021	110 6.	0 3	<u> </u>	<u> </u>	1DITE.	LUIP	<u> </u>	10111	v.		
FREQUENC	Y	EARL'	Y	J	AN-MA	R .	RI	PR-JI	JH	J	JL-SE	P	0	CT-DE	£C
	day	nit	dŁn	day	nit	d&n	day	nit	din	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	1	0	1	1	8	1	2	9	1	1	0	1
1 GHz	23	7	15	23	6	15	26	10	18	23	5	14	20	6	13
3 GHz	[29	9	. 19	30	9	19	32	12	22	28	7	18	26	8	17
6 GHz	51	29	48	51	32	41	53	31	42	56	25	37	48	28	38
10 GHz	74	62	68	72	62	67	75	63	69	77	61	69	72	62	67
20 GHz	84	79	82	81	76	79	85	79	82	88	81	85	84	79	82

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	ARL	?	J	AN-M	BR	A	R-J	JH	31	UL-SE	P	Ō	T-DI	EC
	day	nıt	d&n	day	nit	d&n	day	nit	d <u>€n</u>	day	nit	d&n	day	nit	d&n
Percent occurrence	9	1	5	10	6	- 5	7	- 8	4	12	0	- 6	6	3	5
AVG thickness Kft	l		.43	l		.43	l		.50	l		. 47	1		.34
AVG trap freq GHz	l		.61	l		. 75			.35			.70	1		.65
AVG lyr grd -H/Kft	Ĺ		125	<u> </u>		162	Ĺ		111	Ĺ		109	Ĺ		116

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARLY	<u>, </u>	J	RH-MI	AR	91	7R-31	JH	J	JL-SI	EP	00	CT-DI	EC
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	dan	day	nit	d&n
Percent occurrence	12	4	8	19	8	10	8	9	4	9	0	5	13	15	14
AVG top ht Kft			3.1	ļ		3.1			2.2	l		4.0	1		3.1
AVG thickness Kft			.47	<u> </u>		. 60		_	.47			.22	J .		.58
AVG trap freq GHz			.71	Γ-		.37			.37			1.8			.33
AVG lyr grd -N/Kft			59			56			56	l		53	l		69
AVG lyr base Kft			2.8			2.7			1.8	i		3.8	i		2.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRE	HCE '	EARL'	Y	31	คห-หเ	R.	Af	R-J	JN	J	JL-SI	P	00	T-DE	C
	day	nit	d&n	day	nit	d&n	day	nit	dtn	day	nit	dŁn	day	nit	dån
0 to 10 Fee	t 10	19	10	14	15	14	9	10	10	7	?	7	10	9	9
18 to 28 Fee	ι [;	7 11	9	7	10	8	7	12	9	7	12	10	8	12	10
20 to 30 Fee	1 1	17	_ 14	10	14	12	11	16	14	12	20	16	12	18	15
30 to 40 Fee	t 1:	3 18	16	11	15	:3	12	17	15	15	21	18	13	20	16
48 to 58 Fee	t 12	2 15	14	11	15	13	12	14	13	15	16	15	12	15	14
50 to 60 Fee	t 11	11	11	10	12	11	10	10	16	12	10	11	1 i	11	1.1
60 to 70 Fee	.	7 6	7	8	7	7	7	6	7	7	- 5	6	7	6	7
78 to 88 Fee	ι :	5 3	4	5	4	5	5	3	4	5	2	3	5	3	4
80_to 90_Fee	٠ <u> </u> :	3 1	_ 2	_3	2	3	3	1	2	2	_ 1_	2	3_	i	2
90 to 100 Fee		2 1	1	5	1	2	2	1	1	2	1	1	2	1	1
abov∈ 189 Fee	t 19	96	12	18	6	12	22	10	16	17	5	11	17	4	15
Mean height Fe	er 6.	43	54	62	44	53	69	48	58	63	42	53	63	40	51

PARAMETER	YEARLY	7	JA	N-MAR		RP	R-J≀	IN	Ĵί	JL-SI	P	OC	T-DE	C
	day nit	d&n	dav	nit di	'n	day	nit	d&n	day	nit	din	day	nit	din
% occur EL&SB dcts		1			1			0			1			1
% occur 2+ EL dcts		1			2	l		1			Ð	i		9
AVG station N	}	333	İ	34	1	1		329	i		326			335
RVG station -H/Kft		15	Ì	1	7			14			15			16
AVG sfc wind Kts	15 14	15	16	15 1	5	14	13	14	15	14	14	16	16	16

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

48 21 S 9 52 N (*) INDICATES INSUFFICIENT DATA Specified location: 40 21 S 9 52 H

Radiosonde source : 68906 Radiosonde station height: 177 Feet

Surface obs source: MS407 25 00 S 5 00 E

FREQUENCY	Y	EARL'	Υ	36	BH-MI	AR .	A	-R-J	JH _	31	JL-S	EP .	G	CT-D	EC
	day	nit	d&n	day	nıt	d&n	day	nit	d&n	day	กเเ	den	day	nit	d&n
100 MHz	0	0	- 6	0	1	b	_ 6	0	0	0	0	8	9	1	0
1 GHz	25	8	17	31	11	21	26	7	17	19	4	12	25	9	17
3 GHz	33	12	23	48	18	29	35	12	23	25	7	16	31	14	22
6 GHz	61	44	52	69	56	63	64	46	35	55	35	45	57	38	47
10 GHz	86	81	84	89	87	88	88	83	85	85	78	81	84	77	89
20 GHz	93	93	93	94	94	94	95	93	94	93	92	93	92	91	91

泛相

PARAMETER	Y	EARL'	Y	J1	AX-MI	R.	ลเ	R-JI	iΝ	J	JL-SI	EP	0	CT-DI	EC
	day	nit	dan	day	nit	dån	day	nıt	d&n	day	nit	dan	day	nit	dtn
Parcent occurrence	1	3	2	1	3	2	1	9	1	1	0	1	1	7	4
AYG thickness Kft	1		. 42	1		.71	1		.28			.32	i		.39
AYG trap freg GHz			.73	Į		.29	ļ		1.0	į		.59			1.0
AVG lyr and -N/Kft	1		147	l		121	l		234	l		191	l		131

PARAMETER	YI	ENRL'	8	Jf	าท−ทเ	R	A:	R-JI	M	31	JL-SE	EP T	00	CT-DE	EC
	day	nit	<u>d&n</u>	day	nit	din	day	nit	d&n	day	nit	dan	day	rit	d&n
Percent occurrence	22	37	29	39	56	43	24	45	35	15	19	17	17	29	23
RVG top ht Kft	l		4.7	ŀ		4.6	l		4.9			4.4	l		4.8
AVG thickness Kft	l _		.44			.58	l		. 45	•		.31	1		.41
AVG trap freq GHz			.39			.28			.32			.63			.38
AVG lyr grd -N/Kft	ļ		64			70	l		64	i		61			61
AVG for base Kft	ı		4.4			4.3	1		4.5			4.1	•		4.5

EVAPORATION BUILT MISTOCRAN IN PERCENT OCCURSENCE.

SAULDEWITOR BOCK WIS	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	inii .	LIS F			CORI	CHCE								
PERCENT OCCURRENCE	Y	ARL	<u> </u>	J	AH-M	R.	AF	P-J(JH	7	UL-SE	EP	õ	T-Di	EC
	day	nit	d&n	day	nit	d&n	day	1112	dån	day	711	dŧn	day	nit	dtn
0 to 10 Feet	3	3	3	3	2	2	3	2	2	3	3	3	4	4	4
10 to 20 Feet	4	5	4	3	4	3	3	5	4	4	6	5	4	6	5
20 to 30 Feet	7	12	10	5	8	- 6		_10	9	Ģ	14	12	8	15	_12
30 to 40 Feet	11	18	15	8	13	10	10	17	14	14	21	18	12	20	16
40 to 50 Feet	14	20	17	12	19	16	14	20	17	16	22	19	15	21	18
50 to 50 Feet	13	16	15	12	19	_ 15	12	17	14	15	16	15	13	14	14
60 to 70 Feet	9	10	10	19	13	12	16	11	10	9	3	8	8	7	8
70 to 80 Feet	6	6	6	8	8	8	-	7	7	5	5	5	5	4	4
80 to 90 Feet	4	3	3	_ 5	4	_ 5	5	_ 3	_ 4	_ 3	2	3	3	2	3
90 to 100 Feet	3	5	2	— 4	2	3	3	2	2	3	1	2	2	1	2
above 100 Feet	25	7	16	39	9	26	26	7	17	19	4	11	24	6	15
Mean height Feet	80	53	67	89	68	75	82	55	69	70	47	59	79	49	64

GENERAL METEOPOLOGY SUNHARY:

PARAMETER	YE	ARL'	Y	Ji	H-H	iR	AF	P-JI	JH	Ji	JL-SI	ĒΡ	G	T-D	EC
	day	การ	din	day	การ	den	day	nit	dtn	day	nit	din	day	nit	den
% occur EL&SB dcts			0			0			8			0			1
% occur 2+ EL dcts			2			2			2			1	1		2
AVG station H			328			334	i		327	Ì		321	ŀ		330
AVG station -h/Kft			13			14			13			12			14
AVG sfc wind kts	14	14	14	14	15	15	14	13	13	16	15	15	14	14	14

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 45.00 S 55.00 W (*) INDICATES INSUFFICIENT DATA Radiosonde source: 87748 38 43 S 62 10 W

Radiosonde station height: 246 Feet

Surface obs source: MS449 45 00 S 55 00 H

PERCENT OCCUPPENCE OF ENHANCED SUPERCE-TO-SUPERCE RADAR/ESM/COM RANGES:

-2	Encelli octomorae	<u> </u>			••••			7								
Į	FREQUENCY	Y	EARL'	Y	J	คม-ห	AR	RI	PR-J	UH	Ĵί	JL-SI	Р	õ	CT-DE	EC
ĺ		day	nit	d&n	day	nıt	d&n	day	n <u>i t</u>	d&n	day	nit	dån	day	nit	d&n
ſ	100 MHz	1	9	1	1	9	$-\frac{1}{1}$	1	9	1	8	9	0	1	8	1
١	1 GHz	9	4	7	12	5	8	7	4	5	7	5	6	11	4	7
l	3 GHz	12	6	9	15	6	10	10	5	8	8	7	7	14	5	9
ſ	6 GHz	28	13	16	24	16	28	19	11	15	14	10	12	23	13	18
ı	10 GHz	37	31	34	43	37	49	34	27	31	31	24	27	42	34	38
I	2€ GH≥	52	48	50	55	54	_55	49	46	48	47	48	44	55	_ 50	_53

SURFACE RASED DUCT SUMMARY:

PARAMETER	Y	ARL	Y	J	RH-H	aR	AF	R-JI	UN	J	JL-SI	P	00	CT-DI	C
	day	nit	dan	day	nıt	d&n	day	nit	dŁn	day	nit	d&n	day	nit	dŧn
Percent occurrence	6	3	4	9	2	6	6	3	5	3	3	3	6	3	5
AVS thickness Kft	l		. 28	•		.23			.18	ļ		.27	i .		.13
AVG trap freq GHz	1		1.1	i		1.4	ı		.84	1		1.1	l		1.3
AVG lyr grd -N/Kft	L		171	L		200	<u> </u>		126	[182		_	176

ELEVATED DUCT SUMMARY:

PARAMETER	YE	EARL'	r	J	AH-M!	BR .	A!	PR-Jī	UN	J	JL-SI	EP	0	CT-D1	EC
	day	nit	d&n	day	nit	dŁn	day	nit	dên	day	nit	d&n	day	nit	dan
Parcent occurrence	2	2	2	4	2	3	3	2	3	1		1	1	1	1
AVG top ht Kft	ĺ		4.2			3.8	l		6.0	1		5.1	ļ .		2.0
84G thickness Kft			.37			.49	[.22	ĺ		.42	[.		.37
AVG trap freq GHz			1.2			2.8			1.6			.43			1.0
8VG lyr grd -N/Kft	i .		63			67	1		59	l		65	ĺ		59
RVG fur base Kft			4.0	ĺ		3.5	ĺ		5.8	ĺ		4.8	ĺ		1.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT	OCCURRENCE	Y	ARLY	·	31	44-H	R .	AF	ねーゴ	JH	Ji	JL-SI	P	0	CT-DE	C
		dav	nit	dŁn	day	nis	dŁn	day	nit	din	day	nit	den	day	nit	dŁn
Ø to	10 Feet	38	31	31	30	30	30	32	32	32	28	33	39	29	31	30
18 to	20 Feet	22	23	22	18	18	18	22	24	23	27	29	28	19	20	19
20 10	30 Feet	15	17	16	13	17	15	16	19	17	16	17	17	14	17	:5
30 to	40 Feet	11	11	11	11	12	11	11	12	11	11	10	11	12	12	12
40 10	58 Feet	7	7	7	8	9	9	5	5	5	6	3	5	7	9	8
58 to	68 Feet	4	4	4	5	_ 5	5	_ 4	3	4	3	_3	3	5	4	. 4
60 to	70 Feet	3	2	2	3	3	3	2	2	2	2	1	1	3	2	2
70 to	80 Feet	ì	1	1	2	2	2	1	1	1	1	1	1	2	2	2
88_to	98 Feet	1_1_	8	1	1	. 0	. 0	_ 1	_6	1	. 6	. 1	1	1	8	. 1
98 10	100 Feet	1	9	e	1	8	0	1	8	0	0	1	0	1	0	1
above	108 Feet	7	3	5	8	4	6	4	2	3	6	3	4	8	3	5
Hean he	ight Feez	31	25	28	34	29	32	27	23	25	28	23	25	35	26	30

PARAHETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit dan	day nit din	day nit dan	day nit dan
% occur EL&SB dcts	- 8	0	9	0	0
% occur 2+ EL dcts	j ø	9	9	8	j e
AVG station H	320	325	318	316	322
AVG station -N/Kft	13] 13	13	12	13
AVG sfc wind Kts	15 15 15	15 15 15	15 14 15	16 14 15	15 15 15

(*) INDICATES INSUFFICIENT DATA Specified location: 45 4€ \$ 67 27 H 45 46 S 67 27 W Radiosonde source : 87860 Radiosonde station height: 190 Feet

45 00 S 65 00 W Surface obs source: MS450

PERCENT COCHERENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	Y	EARL	7	J	ลิท-พ	R .	AF	R-JU	JH	J	JL-SE	P	0	CT-DE	EC
1	day	nit	dån	day	nit	d&n	day	nıt	dan	day	nit	dkn	Cay	nit	d&n
100 MHz	0	0	0	8	- 6	e	8	8	8	9	8	0	9	1	1
1 GHz	21	13	17	30	16	23	13	12	13	15	9	12	24	14	19
3 GHz	24	15	19	33	19	26	16	13	14	18	11	15	27	16	22
6 GHz	34	24	29	47	33	40	28	24	26	26	17	21	36	23	30
10 GHz	54	47	51	66	57	61	53	52	53	46	39	42	53	42	47
20 GHZ	69	66	67	76	74	75	71	78	70	63	60	61	66	59	62

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SUPFACE BASED DUCT SUMMARY:

	SOLLINCE DUSCO DOCL A	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,														
1	PARAHETER	YI	EARL'	Υ	J	RN-M	RR	AI	PR-JI	ŪМ	Ji	UL-Si	EP	0	CT-DE	EC
į		day	nit	din	day	nit	d&n	day	กาะ	dkn	day	nit	dan	day	การ	d&n
1	Percent occurrence	3	2	3	4	2	3	4	2	3	2	0	:	3	5	4
1	RYG thickness Kft			. 14	[. 15	[. 13			. 13	í		. 13
١	AVG trap freq G4z			1.7	1		1.9	l .		1.6	ł		2.6	ļ		.89
1	AVG lyr grd -N Yft			220			147			222	L		242			271

ELEVATED DUCT SUMMARY:

PARAMETER	Υŧ	ARL'	7	J	RN-H	aR	AI	R-J	JH	Ji	JL-S	EP	0	CT-DI	EC
	day	nst	dŁn	day	n1%	d&n	day	nit	d&n	day	nit	dŧn	day	nit	d&n
Percent occurrence	1	1	1	1	i	1	1	8	1	2	1	2	1	3	2
AVS top ht Kft	•		3.9	i		3.4	ĺ		*			4.6	l		3.7
AVG thickness Kft	l		.51			.61	_		.54			.40			.48
AVG trap freq GHz			.37			. 27			.19			. 49			.54
AVG lyr grd -N/Kft	1		82	ļ		75	1			!		71	l		99
AVG lur base Kft	L		2.8	<u></u>		3.1	İ		.19	<u> </u>		4.3	i		3.5

ERCENT OCCURRENCE	Y	HRL'	Y	7	H-H	AR -	Al	PR-JI	ŪH	31	ルーち	EP "	00	T-DE	EC
	day	PIL	dŧn	day	nit	_d&n	day	nıt	d&n	day	nit	dan	day	nit	dkn
0 to 10 Feet	20	18	19	19	15	17	17	12	14	19	20	26	24	24	24
10 to 20 Feet	13	17	15	6	11	8	15	19	17	19	28	20	11	18	15
20 to 30 Feet	15	19	17	11	17	14	18	18	18	17	20	19	13	18	16
30 to 48 Feet	13	15	14	11	14	13	16	19	17	14	15	15	9	14	11
40 to 50 Feet	8	8	8	8	11	9	j 18	9	10	6	7	6	8	5	- 5
50 to 60 Feet	5	5	5	7	8	7	6	5	6	4	4	4	5	3	4
60 to 70 Feet	3	3	3	3	4	4	3	3	3	3	1	- 2	3	2	2
70 to 80 Feet	2	2	2	3	2	3	3	3	3	1	1	1	2	2	2
80 to 90 Feet	1	_ 1	_ 1	_ 2	2	_ 2	1	1	1	1	_ 1	1	1_1	1	
90 to 100 Feet	1	1	1	1	1	1	1	Θ	1	2	- 0	i	2	1	1
above 100 Feet	19	12	16	29	15	22	12	11	12	15	9	12	22	12	17
Hean height Feet	1 56	43	58	! 73	52	63	46	45	45	47	36	42	59	49	49

PARAMETER	YERR	LY	JA	H-MAF	?	AF	R-J1	JN	J	JL-SI	P	0(CT-Di	C
	day m	t dan	day	n12 (St n	day	nit	d&n	day	nit	din	day	nit	dan
% occur FL&SB dcts		8			9			8			9			9
% occur 2+ EL dcts		8			9			8			ə	ł		9
AVG station H	i	364		:	វម៌1			398			384			361
AVG station -N/Kft		11			10			12	1		11	ļ .		18
AUG sic wind Kis	14 1	3 13	13	13	13	15	13	1+	12	_14	14	12	12	12

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

Specified location: 41 30 S 72 54 H Radiosonde source: 85801 41 30 S 72 54 H (*) INDICATES INSUFFICIENT DATE

Radiosonde station height: 10 Feet

Surface cbs source: MS451 45 00 S 75 00 H

PERCENT OCCURRENCE OF ENHANCED SUPFACE-TO-SURFACE RABAR/ESH/CGM RANGES:

PERCENT OCCORRENCE	- Ur E	ALTERIA.	<u> </u>	30r r	102	10-3	ORFR	CE P	אחעה	- 511	COIL	KIIII	4534		
FREQUENCY	Y	EARL'	Υ		RH-M	AR	A!	PR-JI	HL	J:	JL-SI	EP.	0	CT-DE	EC
<u> </u>	day	nit	d&n	day	nit	dan	day	nit	đần	day	nit	den	day	nit	dan
160 MHz	9	1	1	1		1	0	0	0	8	0	9	e	8	Ø
1 GHz	11	7	9	18	12	15	7	7	7	8	3	6	12	7	9
3 GHz	. 1.54	_ 9	_ 11	21	14	17	8	_ 9	8	_ 11	4	8	15	9	12
6 GHz	22	15	18	33	23	28	13	14	14	19	8	13	23	15	19
10 GHz	50	42	46	61	51	56	45	42	44	46	36	41	48	39	4
28 GHz	69	65	67	76	69	72	54	65	65	69	65	67	67	69	63

SURFACE RASED DUCT SUMMARY:

	3011110111				
PARAMETER	YEARLY	JAH-MAR	APR-JUH	JUL-SEP	OCT-DEC
	day nit dan	day nit dan	day nit dkn	dav nit din	day nit den
Percent occurrence	4 5 4	6 8 7	1 3 2	3 3 3	5 4 5
AVG thickness Kft	.31	.48	.32	.24	.29
AVG trap freq GHz	1.2	.48	.€0	2.1	1.8
RVG lyn grd -N/Kft	148	120	213	185	118

FLEAHIER BOLL SOUGH	· · · · · · · · · · · · · · · · · · ·													
PARAMETER	YEARL	Y	J	H-HR	78	AF	R-J	JH	JI	JL-S	P	00	T-B	EC
	day nit	d&n	day	nit	dŁn	day	nix	d&n	day	nit	den	day	nis	dan
Percent occurrence	9 8	9	13	9	11	9	9	9	7	9	8,	6	ε	
AVG top ht Kft		4.8	1		5.3			4.4			4.6			4.7
AVG thickness Kft		. 32			.38	l		. 43			.28			. 28
AVG trap freq GHz		.85			1.1			.58			.86			.81
AVG lyr grd -N/Kft		62	ĺ		56			65			57			72
AVG lyr base Kft		4.5			5.1			4.1			4.4			4.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCC	URRENCE	YE	ARL	7	3	คห-ห	AR	PI	R-J	JH	Ji	UL-SI	P	00	(1-D	EC
			Gay	nit	din	day	ni*	din	day	mit	đần	day	nit	dên	day	nı.	dun
8 60	10	Feet	16	16	16	14	16	15	16	15	16	13	16	14	18	17	18
18 to	20	Feet	17	21	19	12	17	15	20	21	21	19	28	19	16	24	26
20 to	30	Feet	19	24	21	15	29	18	28	_23	21	23	39	27	19	_21	26
39 to	48	Feet	18	26	19	17	18	18	23	21	22	17	21	19	16	19	18
48 to	56	Feet	11	8	16	13	12	13	9	8	9	11	8	9	10	6	8
50 10	60	Feet	5	4	5	7	5	6	4	_ 4	4	5	2	•	_ 5	5	_ 5
60 to	76	Feet	2	1	2	3	2	3	1	1	1	1	1	2	2	1	2
78 to	88	Feet	1	1	1	2	2	2	0	8	Θ	1	Θ	1	1	8	1
80 to	90	Feet	1	_ 8	1	2	9	1	_ 1	_ 8	. 1	2	. 8	. 1	_ 1	1	1
98 to	160	Feet	1	0	-	1	9	0	1	1	1	1	0	1	1	6	- 0
above	100	Feet	9	5	7	14	7	11	6	5	6	7	2	5	10	5	3
Hean he	ight	Feet	41	32	37	51	38	45	33	32	33	38	27	33	42	32	37

GENERALE HETEOMOROGY															_
PARAMETER	YEF	RLI	7	JF	H-HI	AR .	AF	P-JI	N N	51	JL-SI	EP	00	T-DE	EC
	day r	nit_	dan	day	nit.	din	day	nit	den	day	nit	dŧn	day	nit	dEn
% occur ELLSB dcts			3			1			0			1			9
% occur 2+ EL dcts			8			1			1			8			0
AVG station N			326	l		330			327			328	ı		326
RVG station -N/Kft			13	í		14			13			12			13
AVG sfc usnd Kts	16_	15	15	15	13	14	16	15	15	17	17	17	15	15	15

Specified location:

(*) INDICATES INSUFFICIENT DATA

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Radiosonde source : 85799 41 28 \$ 72 55 K Radiosonde station height: 361 Feet Surface obs source: NS451 45 00 S 75 00 N

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESH-COM RANGES:

41 28 S 72 55 H

t	FAEG	AUELC !	, ,	EUVE		יט ו	D14-111	nĸ	i u	-K-24) FR	, ,,	JL-3:		יטו	~ • - DE	
L			day	nit	d&n	day	nit	dŁn	day	nit	d&n	day	nit	din	Jay	nit	d&n
	188	MHz	1 0	1	1	9	1	0	0	- 0	- 0	1	9	1	0	3	1
1	1	GHz	10	9	10	14	11	12	7	7	7	11	2	ε	10	16	13
1	3	GHz	13	11	12	17	12	34	9	8	8	15	2	9	12	28	16
	6	GHz	21	17	19	29	21	25	14	14	14	23	6	15	20	26	23
1	10	GHz	58	44	47	59	50	54	45	42	44	49	35	42	4€	48	47
l	20	GHz	69	€6	67	74	69	71	65	_65	65	71	64	68	65	66	_ 66

PARAMETER	Y	EARL	Y	Ji	ห-หล	AR	Al	PRーJ	אט	31	UL-SI	EP	0	CT-D	EC
	day	nit	d&n	day	nit	dån	day	nit	dŁņ	day	nit	ಸ ೬೧	lday	nit	dŁn
Percent occurrence	4	7	5	8	7	4	2	4	3	12	. 0	- 6	8	17	9
AVG thickness Kft			.22	1		.16	l		.21	l		.17	ł		.36
AVG trap freg GHz	•		1.5	ì		1.0	i		2.0	1		2.6			.54
AVG lyr and -H/Kft	•		149	1		182	l		137	i		191	1		85

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	7	3	AH-MI	AR	RI	PR-J	NH	J	JL-SI	EP	0	CT-D	EC
	day	nit	dan	day	nit	dan	day	nit	d&n	day	nit	din	day	nit	din
Percent occurrence	36	36	33	46	40	43	28	34	31	29	17	23	42	29	36
AVG top ht Kft			4.9	1		5.5	ł		4.4	ļ.		4.7	į .		*
AVG thickness Kit	Ì		.37			.39	•		.37			.29	1		.42
AVG trap freq GHz			.50			.34			.54			.81			.32
HVG lyr grd -N/Kft			62			60	l		63			62	l		*
AVG lyr base Kft	ŀ		4.6	1		5.2	l		4.2	<u>l</u>		4.5	1		4.4

EVAFORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE.

PERCENT OCCURRENCE		EARL'	Y	J	ak-K	r.	! AI	アーノリ	H	JI	JL-Si	F	-0	CT-DE	EC
	day	n·t	d£n	day	nit	ರಹಿಗ	dav	nit	din	day	nit	d\$n	day	nit	dan
0 to 10 Feet	1.6	15	16	14	16	15	15	15	16	13	16	14	18	17	18
18 to 28 Fest	17	21	19	12	17	15	20	21	21	19	28	19	16	24	20
28 to 30 Fret	19	24	2:	15	26	18	29	23	21	23	30	27	19	21	_ 20
38 to 48 Feet	18	28	19	17	18	18	23	21	22	17	21	19	16	19	18
40 in 50 Feet	1 11	8	18	13	12	13	9	8	9	11	8	9	10	6	8
50 to 60 Feet	5	4	5	7	5	- 6	4	4	4	5	2	4	5	5	5
60 to 78 Feet	2	ī	- 2	3	2	3	1	1	1	1	1	1	2	1	2
70 to 80 Feet	1	1	1	2	2	5	9	9	0	1	6	1	1	0	1
80 to 98 Feet	1 1		1	2	- 8	ī	1	9	1	2	e	1	1	1	1
90 to 100 Fest	1	8	1	1	0	e	1	1	1	1	8	1	1	0	0
above 100 Feet	9	5	7	14	7	11	6	5	6	7	2	5	10	5	8
Hean height Feet	41	32	37	51	38	45	33	32	33	38	27	33	42	32	37

GENERAL METEOROLOGY SUMMARY:

T TOTAL TER		• ,	74111		i eer	- 3011	, ,,,	-3Cr	061-	DEC
L	day nit	d&n	day nit	dar	day n	it dan	day "	nt dan	day ni	t dtn
% occur EL&SB dcts		1		<u></u>		1		1		1
% occur 2+ EL dcts	Í	3	ĺ	5	ľ	4	i	1	ļ	3
RYG station H	i	326		327		325		324		327
HVG station -N/Kft		13		13		13		13		14
AVG sfc wind Kts	16 15	15	15 13	14	16	15 15	17	17 17	15 1	5 15

TOU-KOP OPP-THE THE COP OCT-DEC

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

Specified location: 43 57 S 176 34 H (*) INDICATES INSUFFICIENT DATA Radiosonde source: 93986 43 57 S 176 34 H

Radiosonde station height: 151 Feet Surface obs source: MS426 35 00 S 175 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESH/COM RANCES:

ERCENT OCCURRENCE	Ur E.	*****	CCD_	JUKE .	NCE-	10-3	UNTH	- N	IUIT.	E311	CUIL	V. Lillian	<u> </u>		
FREQUENCY	Ϋ́	EARL'	Y	J	AN-HA	3R	A1	PR-JI	JN	JU	JL-SE	P	0:	CT-DE	EC
	day	nit	dŁn	day	nit	d&n	day	nit	dtn	day	nit	d&n	day	nit	dan
100 MHz	9	9	- 0	1	9	9	0	- 9	0	Ø	8	0	8	0	-0
1 GHz	18	6	12	23	9	16	14	7	11	13	4	8	20	- 6	13
3 GHz	23	8	15	29	_11	28	28	. 9	15	16	5	19	25	7	16
6 GHz	43	25	34	49	38	39	45	31	38	36	28	28	43	21	32
10 GHz	67	57	62	78	59	65	69	62	66	65	55	68	65	51	58
28 GHz	78	71	74	79	72	75	89	73	76	77	73	75	75	66	71

SUPERCE BASES BUCT SURMARY.

SURFACE BUSED BUG!	<u> </u>	nkı.													
PARAMETER	Y	EARL'	7	J	คห-หเ	AR	A	PR-J	JN	31	UL-SI	P	01	CT-DE	EC
	day	nit	din	day	nit	d&n	day	nit	din	day	กรับ	den	day	nit	dan
Fercent occurrence	3	. 9	ī	4	-0	2	1	0	1	2	0	1	4	- 8	2
AVG thickness Kft			.30			. 32	[.19			.47	ŧ		.21
AVG trap freq GHz	į		1.1	1		.89	i		.76			1.1	ı		1.5
AVG lyr grd -N/Kft			155	Ĺ		88	[208			174	i		149

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Υ	31	AN-M	R.	Af	R-J	ÜN	30	JL-SI	P	- 00	:T-DI	EC
	day	nit	din	day	nit	d&n	day	nit	dan	day	nit	din	day	nit	dŧn
Percent occurrence	15	- 6	7	24	0	12	15	0	8	6	9	3	13	9	7
AVG top ht Kft	[4.1	l		4.2			4.3	•		4.8	ĺ		4.1
AVG thickness Kft			.31	1	_	.33	i		.27			. 36	Ì.,	_	.38
AVG trap freq GHz			.75			.64			.85			.72			.79
RVG lyr grd -N/Kft			58			55	ŀ		57			64	Ì		56
AVG lyr base Kft			3.9	<u> </u>		3.9			4.1	i		3.7			3.8

EVAPORATION DUCT HISTOGRAM IN PEPCENT OCCURRENCE:

PERCENT	OCCURRENCE	YI	ARL	7	J	AN-M	RR .	A	PR-J	אנ	7	JL-S	EP	00	T-DE	C
		day	nit	d&n	day	nit	den	day	nit	din	day	กาเ	din	day	nit	dtn
9 to	18 Feet	16	19	17	17	28	19	15	19	17	14	15	14	17	20	19
19 to	28 Feet	7	10	9	6	8	7	5	8	7	10	12	11	8	13	10
20 to	30 Feet	11	14	12	9	12	11	_11	11	11	12	18	15	11	15	13
38 to	40 Feet	12	17	15	11	16	13	13	15	14	15	19	17	11	17	14
48 to	56 Fee:	12	15	13	11	14	12	12	16	14	14	16	15	12	12	12
58 to	60 Feet	9	10	10	9	11	10	18	12	11	13	10	18	9	. 8	_ > j
60 to	70 Feet	7	-5	6	7	5	6	9	6	8	6	4	5	6	3	5
70 to	88 Feet	4	3	4	5	3	4	6	4	5	4	2	3	3	2	3
88 to	98 Feet	3	1	2	_ 3	1	_2	4	1	3	2	e	1	2	1	1
90 to	188 Feet	2	1	1	2	1	2	2	1	2	1	0	1	2	0	$\overline{}$
above	100 Feet	16	6	11	21	9	15	14	7	10	12	4	8	19	€	:3
Hean he	right Feet	59	41	50	65	44	55	57	43	50	52	37	44	61	38	_5 <u>0</u>

FARAMETER	YERRLY	JAN-MAR	APR-JUH	JUL-SEP	OCT-DEC
	day nit din	day nit dan	day nit din	day nit d&n	day nit din
% occur EL&SB dcts	8	1	8	8	9
% occur 2+ EL dess	1	2	9	6	1
RVG station N	328	331	328	324	329
AVG station -H/Kft	14	15	14	14	15
AVG sfc wind Kts	15 14 14	13 12 13	16 15 16	16 15 16	14 13 13

(4) INDICATES INSUFFICIENT DATA

Specified location: 43 28 S 172 33 E Radiosonde source : 93780 43 28 S 172 33 E

Radiosonde station height: 118 Feet

Surface obs source: MS426 35 00 S 175 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

CPCENI (ULLUKKENLE	-JF E	MARIN	CED .	SUKF		10-3	JEFO	, r	· DIV		~~.				
FRE	QUENCY	Y	EARL'	Υ	J	AN-M	RR	A!	PR-J	JH	31	JL-SI	EP	0	CT-DI	EC
		day	nit	d&n	day	nit	dŁn	day	nit	d&n	day	nit	d&n	day	nit	dŁn
199	HHz	1	8	1	1	9	1	1	9	8	Ø	0	0	1	1	1
1	GHz	19	7	13	23	10	17	17	7	12	13	4	9	23	9	16
3	GHZ	24	10	17	29	13	21	24	9	17	17	5	11	28	11	20
6	GH2	45	27	36	49	32	48	48	31	39	37	28	28	45	25	35
10	GHz	68	58	63	78	68	65	71	62	67	66	55	68	66	53	68
26	GHz	78	72	75	79	72	76	81	73	77	77	73	75	76	68	72
	100 1 3 6 10	FREQUENCY 100 HHz 1 GHz 3 GHz 6 GHz 10 GHz 20 GHz	FREQUENCY Y day 100 MHz 1 1 GHz 19 3 GHz 24 6 GH2 45 10 GHz 68	FREQUENCY YEARL day nit 100 MHz 1 0 1 GHz 19 7 3 GHz 24 10 6 GHz 45 27 10 GHz 68 58	FREQUENCY YEARLY day nit dan 100 MHz 1 0 1 1 GHz 19 7 13 3 GHz 24 10 17 6 GH2 45 27 36 10 GHz 68 58 63	FREQUENCY YEARLY JO day nit dan day 100 MHz 1 0 1 1 1 1 1 GHz 17 7 13 23 3 GHz 24 10 17 29 6 GHz 45 27 36 49 10 GHz 68 58 63 70	FREQUENCY YEARLY JAN-MI day nit dan day nit 100 MHz 1 0 1 1 0 1 GHz 19 7 13 23 10 3 GHz 24 10 17 29 13 6 GHz 45 27 36 49 32 10 GHz 68 58 63 70 60	FREQUENCY YEARLY JAN-MAR day nit dtn 100 MHz 1 0 1 1 0 1 1 0 1 1 GHz 19 7 13 23 10 17 3 GHz 24 10 17 29 13 21 6 GHz 45 27 36 49 32 40 10 GHz 68 58 63 70 60 65	FREQUENCY YEARLY JAN-MAR AND MAY NOT COME TO SHE WAY NOT COME TO S	FREQUENCY YEARLY JAN-MAR APR-JUMP APR-J	FREQUENCY YEARLY JAN-HAR APR-JUN day nit dtn day nit dtn day nit dtn day nit dtn 100 MHz 1 0 1 1 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 0	FREQUENCY YEARLY JAN-MAR APR-JUN JAN-MAR 100 MHz 1 0 1 1 0 1 1 0 0 0 1 1 0 1 1 0 0 0 0	FREQUENCY YEARLY JAN-MAR APR-JUN JUL-SI day nit dtn da	FREQUENCY YEARLY JAN-MAR APR-JUN JUL-SEP day nit dan day nit dt	FREQUENCY YEARLY JAN-HAR APR-JUN JUL-SEP OCT-DI day nit dtn day ni	

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL'	Υ	Ji	AH-HI	R.	AF	2-J	JN	Ji	UL-SI	EP	0:	CT-DI	EC
	day	nit	d2n	day	nit	d&n	dev	nit	dkn	day	nít	d&n	day	nit	dŁn
Percent occurrence	7	2	4	5	3	4	- 50	8	- 5	3		2	9	6	8
AVG thickness Kft			. 35	l		.36	l		.31	1		. 35	l		.37
AVG trap freq GHz	1		1.3	İ		.82	l		2.1	1		1.2	1		1.1
AVG lyr and -N/Kft	İ		147	i		149			193			144	i .	_	184

FI EVATED DUCT SUMMARY:

PARAMETER	YI	EARL'	Υ	J	ลห-หล	RR	A)	R-Ji	JN	J	JL-SI	EP	00	CT-D	EC
	day	nit	d&n	day	nit	dŁn	day	nit	dŁn	day	nit	dŧn	day	nıt	d&n
Percent occurrence	8	6	7	13	14	14	7	8	4	5	9	3	8	19	ġ
AVG top ht Kft			2.5	İ		3.7			1.9	ŧ		1.8	1		2.5
AVG thickness Kft			.34			.33			.28	<u> </u>	_	.39	1		.36
AVG trap freq GHz			.73			.69			.92			.73			.58
AYG lyr grd -N/Kft			58			55			57			62	i		59
AVG lyr base Kft			2.2			3.5	l		1.6	I		1.6	<u> </u>		2.2

EVAPORATION BUILT HISTOGRAM IN PERCENT OCCUPRENCE:

EAUL	UF	nı.	LUM .	BUL! HI	3106	י וורי	in r	LRUE		CCUR	ENG								
PE	₹CE	HT	000	URRENCE	Y	ARL'	8	J	RH-H	AR .	RI	PR-JI	UN	JI	UL-SI	EP	00	CT-DE	EC
L.					Gay	nit	den	day	nit	d&n	day	nit	din	day	nit	d&n	day	nit	din
	0	to	16	Feet	16	19	17	17	20	19	15	19	17	14	15	14	17	20	19
1 1	18	to	28	Feet	7	16	9	6	8	7	5	8	7	18	12	11	8	13	19
1 3	20	10	30	Feet	11	14	12	9	12	11	11	11	11	12	18	15	11	15	13
	30	to	40	Fee:	12	17	15	11	16	13	13	15	14	15	19	17	11	17	14
1 4	18	to	50	Feet	12	15	13	11	14	12	12	1€	14	14	16	15	12	12	12
1 :	50	tσ	60	Feet	9	10	10	9	11	10	10	12	11	19	10	10	9	8	9
-	50	to	76	Feet	7	5	6	7	5	5	9	6	8	6	4	3	6	3	5
1 7	70	to	38	Feet	4	3	4	5	3	4	6	4	5	4	2	3	3	2	3
€	98	to	98	Feet	3	1	2	3	1	2	4	1	3	2	0	1	2	1_	1
	90	to	189	Feet	2	1	1	2	1	2	2	1	2	1	9	1	2	Ø	1
	abo	ve	189	Feet	16	6	11	21	9	15	14	7	18	12	4	8	19	6	13
He	Par	h	e i ghi	t Feet	59	41	58	65	44	55	57	43	38	52	37	44	61	38	50

CCHEDAL NETERON: OCY SUMMARY:

PARAMETER	Y	EARL'	Υ -	Jf	1H-H	18	AP	R-J	HU	Jŧ	JL-SI	EP.	00	CT-DI	EC
	day	nit	den	day	nit	d£n	day	nit	din	day	nit	d£n	day	nit	d\$n
% occur EL&SB dcts			0		_	1			9			0			1
% occur 2+ EL dcts			0	İ		1	l		8	i		9	i		1
AVG station N			325			331			323	i		320			326
AVG station -N/Kft			14	Ī		15			14	ŀ		14	l		14
AVG sec wind Kts	15	14	14	13	12	13	16	15	1€	16	15	16	14	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 42 49 S 147 30 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 94975 42 49 S 147 30 E Radiosonde station height: 7 Feet

Surface obs source: MS428 35 00 S 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

				<u> </u>			<u> </u>	<u> </u>							
FREQUENCY	Y	EARL'	Y	J	AN-HI	RR	B)	PR-J	אט	J	UL-SI	ÉP	01	CT-DE	EC
	day	ត្ត ៖	din	day	nit	d&n	day	nit	d&ո	day	nit	din	day	nit	den
100 MHz	9	9	8	1	9	8	9	9	0	9	8	8	Ø		0
1 GHz	18	8	13	26	18	18	15	7	11	111	6	8	21	8	15
3 GHz	26	12	19	36	16	26	24	13	18	17	9	13	26	11	19
6 GHz	57	43	58	68	51	59	58	46	52	51	40	45	53	36	44
18 GHz	81	74	78	84	78	81	84	76	68	81	76	79	76	68	72
28 GHz	88	85	87	89	86	87	l 9a	87	89	98	87	88	84	88	22

CHREATE BACER BUTT CHEMARY.

SOKEMUE RHRED DOCT	DUNNHK	<u> </u>													
PARAMETER	YEA	RLY	,	J	<u>ลห-ห</u>	R T	A	PR-J	บห	3	UL-SI	P	0	CT-D	EC
	day n	it	d£n	day	nit	dŧn	đay	nit	dŁn	day	nit	d&n	day	nit	dan
Percent occurrence	2	2	2	4	1	3	1	1	1	1	3	2	3	2	3
AVG thickness Kft	ł		.26			.40	l		. 28	Į.		.22			.23
RVG trap freq GHz	i		1.8			.88	1		3.6			2.1			.75
AVG lyr grd -N/Kft			146			87			124	Ĺ		266		_	169

ELEVATED DUCT SUMMARY:

FLEANIED DOCI ZODUNI											_		_		
PARAMETER	Y	EARL'	Y	J	AN-MI	R	A!	PR-J	UH_	- 31	UL-S!	EP	- 01	CT-DI	EC
	day	nit	dkn	day	nit	din	day	nit	d&n	day	nit	din	day	nit	dta
Percent occurrence	11	10	10	28	- <u>15</u>	18	5	9	7	8	10	9	10	6	8
AVG top ht Kft			5,3	İ		5.5	ļ		5.3			5.3	1		5.1
AVG thickness Kft			.23	L	_	.30			.21	L		. 18	L		. 25
AVG trap freq GHz			1.3			.68			1.5			1.9			1.2
AVG lyr and -N/Kft			56	[56	1		53	ĺ		54			58
AVG lyr base Kft			5.1			5.2			5.2		_	5.1			4.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCL	IRRENCE	YI	EARLY	1	7	RH-M	R.	RI	PR-JI	JN	j	UL-SI	ΕP	00	CT-DI	EC
			day	nit	dan	day	nit	d£n	day	nit	d&n	day	nit	din	day	nit	dta
0 to	10	Feet	7	8	8	8	8	8	6	7	6	- 6	7	6	11	12	11
10 to	28	Feet	4	7	5	4	6	5	3	6	5	5	7	6	5	7	6
20 to	30	Feet	7	10	9	5	8	7	7	11	9	9	_ 11	18	8	12	10
30 to	40	Feet	11	14	12	8	12	10	11	13	12	13	16	15	11	15	13
48 to	58	Feet	14	18	16	9	16	13	15	17	16	18	21	19	13	17	15
50 to	69_	Feet	13	_15	14	12	_16	14	_15	_ 16	15	16	17	_ 16	11	12	12
60 to	70	Feet	11	10	18	11	11	11	11	11	11	11	9	10	9	8	9
70 to	88	Feet	8	6	7	9	8	9	8	7	7	7	5	6	7	5	ε
88 to	90	Feet	5	3	4	6	_ 4	5	6	4	5	4	2	. 3	3	2	2
98 to	100	Feet	3	2	2	4	2	3	3	2	3	2	1	2	2	1	1
above	198	Feet	17	7	12	24	9	17	15	7	11	10	5	8	19	7	13
_ Kean h	eight	Feet	_68	_51	_68	79	_56	_68	6?	52	68	59	48	53	68	49	58

PARAMETER	YEARL	Y	Jf	3H-HF	1R	AP	R-JU	IÑ	10	JL-SE	P	00	T-DE	C
	day nit	d&n	day	nit	din	day	nit	dŁn	day	nit	d&n	day	310	den
% occur EL&SB dcts		- 0			1		_	0			. 0			8
% occur 2+ EL dcts		B	ļ		1	l		9			0			9
AVG station N		318	1		328			319			316	ĺ		315
AVG station -N/Kft		11	l		11	l		12			12			11
AVG sfc wind Kts	16 15	15	15	15	15	16	15	15	16	15	16	15	15	15

Ü

49 19 S 70 13 E Radiosonde source : 61998 66 Feet

Radiosonde station height:

Surface obs source: MS402 25 90 S 55 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESH/COM RANGES:

FREQUENCY		EARL			AN-H			PR-J			JL-SI			CT-D	FC
. KEGOENOT				ł									_		d&n
100 hHz		+	+	*	Ŧ			+	÷	*	+	*	*	*	*
1 GHz	i *	*		#	*	•	*	•	*		*	#	i *	*	*
3_GHz	#	•	*	*		*	*	#				*	*	*	*
6 GHz	*	*	+	*		+		#	*	*	*	*	*	*	+
10 GHz	*	*	*		•	*	*	*	±	*	*	+	*	÷	4
20 GHz		*	+_		. *	#	*			*	*	*	*	_ *	*

SURFACE BASED DUCT SUMMARY:

PARAMETER		EARL	Y	J	AN-h	R	AF	R-J	UN	Jt	JL-SI	P	00	T-DI	EC
	day	nit	dŁn	day	nit	d&n	day	ni t	dsn	day	nit	d&n	day	nit	dan
Percent occurrence	9	9	9	В	0	0	9	. 6	8	9	0	0	0	8	8
AVG thickness Kft	1			,		*	l		4	1		*	1		#
AVG trap freq GHz			*	l		•			#	ł		*	İ		*
AVG lyr grd -H/Kft				L							_				*

ELEVATED DUCT SUMMARY:

PARAMETER	Y	ERRL	Y	J	AN-M	AR	A	PR-J	UH	31	UL-SI	EP	0	CT-D	EC
	day	nit	dan	day	กเร	d£n	day	nit	din	day	nit	d&n	day	nit	den
Percent occurrence	0	4	2	9	7	4	0	8	4	e	8	0	0	1	1
AVG top ht Kft			5.3	i		6.2	!		4.5	1		+	1		*
AVG thickness Kft			.36	<u> </u>		.35	L		.28	<u>.</u>		7	l		.53
AVG trap freq GHz			.92			.81			1.7			+			.23
AVG lyr grd -N/Kft			56	1		51	i		62			4	1		*
AVG lyr base kft	1		4.7	Į		5.8	1		4.4	ı		*	1		4.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

											<u> </u>							
ERCE	HT	OCC	URRENCE	YE	'ARL	7	J	an-Ma	ar -	- Af	PR-JI	JN	Jt	JL-SE	P	Ō	T-DE	C
				day	nit	d&n	day	nit	din	day	nit	d&n	day	nit	dŁn	day	nit	den
0	10	10	Feet	2	2	2	- 2	2	2	2	1	1	2	2	2	2	2	2
10	to	28	Feet	1	4	3	1	4	3	1	2	2	1	4	3	1	4	3
28	to	38	Feet	4	7	6	4	7	5	3	8	5	4	7	5	4	8	6
30	to	40	Feet	6	12	9	5	11	8	5	10	8	8	12	10	6	15	19
48	to	58	Feet	9	19	14	9	18	13	10	16	13	10	19	15	9	21	15
50	ŧo	60_	Feet	12	18	15	11	18	14	14	17	15	14	_26	17	9	16	13
68	10	70	Feet	12	14	13	11	15	13	12	15	14	13	15	14	10	12	11
70	to	80	Feet	9	9	9	8	18	9	12	11	12	10	10	10	8	7	7
88	to	98	Feet	7	5	6	7	4	5	8	6	_ 7	9	_ 5	7	_5	3	4
90	10	100	Feet	5	_3	4	5	3	4	6	4	5	4	2	3	4	2	3
abo	ve	100	Feet	33	8	29	38	9	23	27	8	17	25	6	15	41	16	25
Hear	n_h	e i gh	t Feet	94	69	77	100	69	80	88	62	75	85	58	71	106	60	83
	10 28 30 40 50 60 70 80 90 abo	10 to 28 to 30 to 40 to 50 to 60 to 70 to 80 to above	30 to 40 40 to 50 50 to 60 60 to 70 70 to 80 80 to 90 50 to 100 above 100	10 to 20 Feet 28 to 38 Feet 30 to 40 Feet 40 to 50 Feet 50 to 60 Feet 60 to 70 Feet	0 to 10 Feet 2 10 to 20 Feet 1 20 to 30 Feet 4 30 to 40 Feet 6 40 to 50 Feet 9 50 to 60 Feet 12 60 to 70 Feet 12 70 to 80 Feet 9 80 to 90 Feet 7 90 to 100 Feet 5 above 100 Feet 33	0 to 10 Feet 2 2 10 to 20 Feet 1 4 7 30 to 40 Feet 6 12 40 to 50 Feet 9 19 50 to 60 Feet 12 14 70 to 80 Feet 9 9 80 to 90 Feet 7 5 50 to 100 Feet 5 3 above 100 Feet 33 8	0 to 10 Feet 2 2 2 10 to 20 Feet 1 4 3 20 to 30 Feet 4 7 6 30 to 40 Feet 9 19 14 50 to 60 Feet 12 18 15 60 to 70 Feet 12 14 13 70 to 80 Feet 9 9 9 80 to 90 Feet 7 5 6 90 to 100 Feet 5 3 4 above 100 Feet 33 8 20	0 to 10 Feet 2 2 2 2 10 to 28 Feet 1 4 3 1 20 to 38 Feet 4 7 6 4 30 to 40 Feet 6 12 9 5 40 to 58 Feet 9 19 14 9 50 to 60 Feet 12 18 15 11 60 to 70 Feet 12 14 13 11 70 to 80 Feet 9 9 9 8 80 to 90 Feet 7 5 6 7 90 to 100 Feet 5 3 4 5 above 100 Feet 33 8 29 38	0 to 10 Feet 2 2 2 2 2 10 to 28 Feet 1 4 3 1 4 20 to 38 Feet 4 7 6 4 7 30 to 40 Feet 6 12 9 5 11 40 to 50 Feet 9 19 14 9 18 50 to 60 Feet 12 18 15 11 18 60 to 70 Feet 12 14 13 11 15 70 to 80 Feet 9 9 9 8 10 80 to 90 Feet 7 5 6 7 4 50 to 100 Feet 5 3 4 5 3 above 100 Feet 33 8 20 38 9	0 to 10 Feet 2 2 2 2 2 2 10 to 20 Feet 1 4 3 1 4 3 20 to 30 Feet 4 7 6 4 7 5 30 to 40 Feet 9 19 14 9 18 13 50 to 60 Feet 12 18 15 11 18 14 60 to 70 Feet 12 14 13 11 15 13 70 to 80 Feet 9 9 9 8 10 9 80 to 90 Feet 7 5 6 7 4 5 90 to 100 Feet 5 3 4 5 3 4 above 100 Feet 33 8 20 38 9 23	0 to 10 Feet 2 2 2 2 2 2 2 2 10 to 28 Feet 1 4 3 1 4 3 1 20 to 38 Feet 4 7 6 4 7 5 3 30 to 40 Feet 6 12 9 5 11 8 5 40 to 58 Feet 9 19 14 9 18 13 10 50 to 60 Feet 12 18 15 11 18 14 14 60 to 70 Feet 12 18 15 11 15 13 12 70 to 80 Feet 9 9 9 8 10 9 12 80 to 90 Feet 7 5 6 7 4 5 8 90 to 100 Feet 5 3 4 5 3 4 6 above 100 Feet 33 8 29 38 9 23 27	0 to 10 Feet 2 2 2 2 2 2 2 1 10 to 20 Feet 1 4 3 1 4 3 1 2 2 2 0 to 30 Feet 4 7 6 4 7 5 3 8 3 3 to 40 Feet 6 12 9 5 11 8 5 10 40 to 50 Feet 9 19 14 9 18 13 10 16 50 to 60 Feet 12 18 15 11 10 14 14 17 60 to 70 Feet 12 14 13 11 15 13 12 15 70 to 80 Feet 9 9 9 8 10 9 12 11 80 to 90 Feet 7 5 6 7 4 5 8 6 90 to 100 Feet 5 3 4 5 3 4 6 4 above 100 Feet 33 8 29 38 9 23 27 8	0 to 10 Feet 2 2 2 2 2 2 2 1 1 10 to 20 Feet 1 4 3 1 4 3 1 2 2 20 to 30 Feet 4 7 6 4 7 5 3 8 5 30 to 40 Feet 6 12 9 5 11 8 5 10 8 40 to 50 Feet 9 19 14 9 18 13 10 16 13 50 to 60 Feet 12 18 15 11 18 14 14 17 15 60 to 70 Feet 12 14 13 11 15 13 12 15 14 70 to 80 Feet 9 9 9 8 10 9 12 11 12 80 to 90 Feet 7 5 6 7 4 5 8 6 7 90 to 100 Feet 5 3 4 5 3 4 6 4 5 above 100 Feet 33 8 20 38 9 23 27 8 17	0 to 10 Feet 2 2 2 2 2 2 2 1 1 2 1 1 2 10 to 20 Feet 1 4 3 1 4 3 1 2 2 1 2 2 0 5 30 Feet 4 7 6 4 7 5 3 8 5 4 30 to 40 Feet 6 12 9 5 11 8 5 10 8 3 4 40 to 50 Feet 9 19 14 9 18 13 10 16 13 10 50 to 60 Feet 12 18 15 11 10 14 14 17 15 14 60 to 70 Feet 12 14 13 11 15 13 12 15 14 13 70 to 80 Feet 9 9 9 8 10 9 12 11 12 10 80 to 90 Feet 7 5 6 7 4 5 8 6 7 9 90 to 100 Feet 5 3 4 5 3 4 6 4 5 4 above 100 Feet 33 8 29 38 9 23 27 8 17 25	0 to 10 Feet 2 2 2 2 2 2 1 1 2 2 10 to 20 Feet 1 4 3 1 4 3 1 2 2 1 4 20 to 30 Feet 4 7 6 4 7 5 3 8 5 4 7 30 to 40 Feet 6 12 9 5 11 8 5 10 8 3 12 40 to 50 Feet 9 19 14 9 18 13 10 16 13 10 19 50 to 60 Feet 12 18 15 11 18 14 14 17 15 14 20 60 to 70 Feet 12 14 13 11 15 13 12 15 14 13 15 70 to 80 Feet 9 9 8 10 9 12 11 12 10	0 to 10 Feet 2 2 2 2 2 2 2 2 1 1 2 2 2 1 1 0 to 20 Feet 1 4 3 1 4 3 1 2 2 1 4 3 3 20 to 30 Feet 4 7 6 4 7 5 3 8 5 4 7 5 3 30 to 40 Feet 6 12 9 5 11 8 5 10 8 8 12 10 40 to 50 Feet 9 19 14 9 18 13 10 16 13 10 19 15 50 to 60 Feet 12 18 15 11 18 14 14 17 15 14 20 17 60 to 70 Feet 12 18 15 11 18 14 14 17 15 14 20 17 60 to 90 Feet 9 9 9 8 10 9 12 11 12 10 10 10 80 to 90 Feet 7 5 3 4 5 8 6 7 9 5 7 90 to 100 Feet 5 3 4 5 3 4 6 4 5 4 2 3 above 100 Feet 33 8 20 38 9 23 27 8 17 25 6 15	0 to 10 Feet 2 2 2 2 2 2 2 1 1 2 2 2 2 2 1 1 2 2 2 1 1 0 to 20 Feet 1 4 3 1 4 3 1 2 2 1 4 3 1 2 2 1 4 3 1 2 2 1 4 3 1 2 2 1 4 3 1 2 2 1 4 3 1 2 2 1 4 3 1 2 2 1 4 3 1 2 2 1 4 3 1 2 2 1 4 3 1 2 2 1 4 3 1 2 2 1 4 3 1 2 2 1 4 3 1 2 2 1 4 3 1 2 2 1 4 3 1 2 2 1 2 1 4 3 1 2 2 1 2 1 2 2 1 2 2 1 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1 3 2 2 2 2	10 to 20 Feet 1 4 3 1 4 3 1 2 2 1 4 3 1 4 20 to 30 Feet 4 7 6 4 7 5 3 8 5 4 7 5 4 8 30 to 40 Feet 6 12 9 5 11 8 5 10 8 12 10 6 15 4 4 5 4 5 4 5 8 6 7 9 5 7 5 3 8 17 25 6 15 41 10

YE				H-HF	AR	AF	-R-J	UH	Ji	JL-SE	EP	0	CT-D	EC
day	nit	d&n	day	nit	dan	day	nit	d&n	day	ns t	dan	day	nit	din
		0			8			0			0			9
		8	l		9			8	l		9	l		0
i		311	l		314	J		313	J		388	ļ		367
		11			11	l		11			11	ŀ		11
13	12	12	14	13	13	13	12	13	14	12	13	11	19	10
	day	day nit	0 0 311 11	day nit dan day 0 0 311 11	day nit dtn day nit 0 0 311 11	day nit din day nit din 0	day nit dan day nit dan day 0	day nit dtn day nit dtn day nit 0	day nit din day nit din day nit din 0	day nit din day nit din day nit din day	day nit dtn day	day nit din day nit dtn day	day nit dtn day	

IREPS REV 2.1

HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 46 52 S 37 52 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 68994 46 52 S 37 52 E

Radiosonde station height: 72 Feet Surface obs source: MS448 35 00 S 35 00 E

PERCENT ACCURRENCE OF ENHANCED SUPERCE-IA-SUPERCE PARABVESHIZON PANCES:

LKCENT OCCORRENCE	<u> </u>	******	<u> </u>	9961	··	<u> </u>	361 11		I DITTO	2311		KIM	360.		
FREQUENCY	Y	EARL	Y]]	AN-M	1R	A	PR-JI	UH	31	UL-S	EP	C	CT-D	EC
	day	nit	din	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	dt a
100 MHz	1 8	0	- 6	0	0	8	0	8	8	0	Ð	9		•	
1 GHz	17	9	13	22	10	16	17	9	13	12	7	9		*	*
3 GHz	27	16	21	33	17	25	27	18	23	19	12	16	*	*	*
6 GHz	63	52	57	66	53	GB	66	57	52	56	46	51	*	*	*
10 GHz	86	82	84	85	81	83	89	86	87	83	88	81	*	*	*
20 GHz	93	91	92	92	89	98	95	93	94	91	91	91	*	*	*

SUPPORE BASED DUCT SUMMARY:

SURFACE BUSED DOCT 3	OHINK I .				
PARAMETER	YCARLY	JAH-HAR	APR-JUN	JUL-SEP	OCT-DEC
<u> </u>	day iit dan	day nit dan	day nit dên	day nit dên	day nit den
Percent occurrence	0 2 1	0 2 1	8 3 2	0 2 1	0 8 6
AVG thickness Kft	.19	.13	.16	.27	*
AVG trap freq GHz	.94	1.4	.82	.58	*
AVG lyr grd -N/Kft	364	581	338	172	*

ELEVATED DUCT SUMMARY:

PARAMETER	Y	HRL'	Y	Ji	AH-M	RR	A	R-J	JH	J	JL-SI	Р	0	CT-DI	EC
	day	nit	d&n	day	ntt	d&n	day	nit	dan	day	nıı	dan	day	nit	din
Percent occurrence	7	7	7	8	8	-8	7	16	3	7	2	5	4	.6	5
AVG top ht Kft	ł		4.1	í		3.7	İ		3.2	ĺ		6.0	l	-	3.6
AVG thickness Kft	L		.31	i		.30	I _		.32			.23	ĺ		.37
AVG trap freq GHz			1.3			1.6			.66			2.2			. 85
AVG lyr grd -N/Kft			58	ĺ		56			66	ľ		59	ĺ		53
AVG lyr base Kft			3.9	<u>L</u>		3.5			3.6			5.9	L		3.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT 0	CCURRENCE	Y	ERRLY	7	7	AN-MI	R	Ai	PR-J	UK	3	UL-SI	EP	0.0	CT-DI	EC
		day	nit	d&n	day	nit	dŧn	day	nit	d&n	day	nit	dån	day	nit	din
0 to 1	0 Feet	5	5	5	5	6	- 5	3	2	3	4	4	4	7	7	7
10 to 2	0 Feet	4	6	5	3	5	4	2	4	3	4	6	5	5	8	6
20 to 3	8 Feet	7	18	8	6	8	7	6	- 8	?	88	11	10	8	12	16
30 to 4	0 Feet	9	13	11	8	12	10	9	12	10	11	15	13	9	15	12
48 to 5	0 Feet	13	17	15	11	16	14	14	17	16	16	19	17	12	16	14
<u>50 to 6</u>	8 Feet	14	16	15	13	16	14	15	18	16	15	_16	16	12	14	13
60 to 7	0 Feet	12	13	12	11	14	12	14	14	14	12	11	12	10	12	11
78 to 8	0 Feet	9	8	8	9	7	8	10	9	19	8	7	8	(8	7	7
80 to 9	0 Feet	_ 6	4	5	7	4	_6	6	_5	_5	5	. 4	4	6	3	_ 4
90 to 1	88 Feet	4	2	3	4	3	3	5	3	4	3	2	2	4	2	3
above 1	98 Feet	18	7	12	22	9	16	17	8	12	12	5	9	19	5	12
Hean hei	ght Feet	71	54	62	77	57	67	72	58	65	63	_51	57	71	50	- 60

PARAMETER	YEARL'	ř	Ji	1K-11F	R.	คร	R-JU	IN	JU	L-SE	P	O.	T-DE	C
	day nit	dkn	day	nit	din	day	nit	din	day	การ	din	day	nit	dtn
% occur ELESB dets		- 6	I		- 0			Õ			0			0
1 % occur 2+ EL dcts	İ	9			1	l		1			0	j		U
AVG station N		318			328			328			317	ł		314
AVG station -N/Kf2		12	ľ		12	i		12			12	j		12
AVG sfc wind Kts	16 15	15	15	14	14	16	15	15	17	15	16	16	15	16

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54 48 S 68 18 W Specified location:

(*) INDICATES INSUFFICIENT DATA

Radiosonde source: 87938 54 48 S 68 18 H Radiosonde station height: 52 Feet Surface obs source: MS486 55 00 S 65 00 H

PEPCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE PADAR FSM COM RANGES:

PEPCEN: ULLURRENCE L	JP E1	INNI	LED :	JUKF	MCE-	10-3	Sern		IDITE	53.1		611111			
FREQUENCY	Y	ERRL'	Y	J	ลห-หเ	AR	RI	PR-JI	JH _	JI	JL-SI	EP "	00	CT-DI	EC
1	day	nit	d&n	day	nit	d&n	day	nít	d&n	day	rit	d&n	day	nst	d&n
100 MHz	8	3	1	*	*	*	*	*	*	*	*	*	0	3	1
1 GHz	8	18	13	¥	•	*	*	*	*	*	±	*	8	18	13
3 GHz	11	23	17	*	*	*		*	*	¥	*	*	11	23	17
6 GHz	16	29	23	+	+	*	*	*	*	*	*	¥	16	29	23
10 GHz	33	49	37	*	*	*	*	*	*	÷	*	*	33	40	37
28 GHz	48	57	53	ŧ	*		#	*	*	*	<u>*</u>	*	48	57	<u>53</u>
	_														

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	J	H-HA	AR	R!	R-Ji	JH	31	JL-SI	EP	ō	T-DI	EC -
	day	nit	d&n	day	nit	d&n	day	nit	dŧn	day	nit	d&n	day	nit	dŁn
Percent occurrence	8	11	6	*	*	*	*	*	*	9	8	8	0	22	11
AVG thickness Kft			.18	ļ		*	i		*	i		*	l		.18
AVG trap freq GHz			. 93	ł		*	l		*	ŀ		•	l		.93
AVG lyr grd -N/Kit			100			*			*			•	L		100

ELEVATED DUCT SUMMARY:

PARAMETER	Y	ENRL'	4	31	AN-M	ar 🗆	Al	PR-JI	UN	Je	ルーち	EP -	00	CT-DI	EC
	dav	nit	d\$n	day	nit	d&n	day	nit	dŧn	day	nit	din	day	nit	d&n
Percent occurrence	0	0	0	+	*	*	*	*	*	9	0	0	0	0	8
AVG top ht Kft	l		*			*	ì		*			*	l		>
AVG thickness Kft	•			l		+	Į.,		*	i			I		*
AYG trap freq GHz			*			#	ì		*			#			*
AVG lyr grd -N/Kft			*	l		*	ĺ		*	•		*	ļ.		*
AVG lyr base Kft	ŀ		*	ļ		*			*	l		*	ĺ		•

E	VAPOR	TAS	101	DUCT HIS	STOGE	RAN	IN PI	ERCE	NT 00	CCUR	RENC	E:							
Г	PEPCE	ENT	OCC	URRENCE	Y	ERRL'	Y	J	RH-M	AR .	RI	PR-31	JH	JI	リレーらし	EP	00	CT-DE	EC
L					day	nit	₫&n	day	nit	d&n	day	nit	d&n	day	nit	din	day	nit	din
Г	0	to	10	Feet	23	26	24	23	23	23	23	26	24	20	26	23	27	28	27
1	10	to	20	Feet	27	30	28	21	25	23	31	34	33	29	35	32	25	26	25
1	20	to	38	Feet	20	21	_26	19	19	19	22	26	21	24	22	23	15	20	_13
Г	30	tc	40	Feet	12	12	12	14	16	15	12	12	12	12	16	11	11	9	18
П	40	to	50	Feet	5	4	5	6	8	7	3	2	3	5	3	4	6	4	5
1.	<u> 5</u> 0	to	60	Feet	2	2	2	3	3	3	2	2	2	_1	1_	1	3	3	3
Г	60	10	70	Feet	1	1	1	1	1	1	1	0	1	1	8	1	1	1	1
1	70	to	89	Feet	1	8	1	1	1	1	1	8	1	1	Э	8	2	8	1
1	88	to	90	Feet	11_	1	1	1	1	1	0	_1	1	1	1	1	1	1	1
Г	90	10	108	Feet	1	0	- 9	1	0	1	Ø	8	0	1	- 6	8	ı	0	1
1	abo	ove	100	Feet	7	4	5	10	3	7	3	3	3	5	1	3	8	7	8
L	Hear	h h	eigh	t Feet	31	25	28	37	28	32	25	23	24	29	21	25	34	29	32

PARAMETER	YE	ARL	r	Ji	ili-M	12	A F	R-JI	H	Jt	JL-SE	Ρ	O.	T-DE	EC
	day	nit	d&n	day	nıt	den	day	nit	din	day	nit	d&n	day	กาเ	din
% occur EL&SB dcts			9			Ð			8			0	I		0
% occur 2+ EL dcts	ŀ		8			Э			9			છ	ł		9
AVG station N			311	ĺ		*			*			388			313
AVG station -N/Kft	ĺ		11			#	ļ.		*			11	ļ .		11
AVG sfc wind Kts	16	16	16	15	15	15	17	16	_16	18	17	17	16	15	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 51 37 S 69 13 W Radiosonde source: 87926 51 37 S 69 13 W

Radiosonde station height: 66 Feet Surface obs source: HS486 55 00 S 65 00 H

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	Y	EARL'	Y	J	AH-MI	R.	A	R-J	JN	Ji	JL-SE	P	9	CT-DI	EC
	day	nit	d&n	day	ni t	din	day	nit	d&n	day	nit	d&n	day	nit	dkn
100 MHz	0	- 8	0) *	*	*	1	0	6	0	1	6	*	*	-
1 GHz	6	3	5	*	*	*	6	3	5	6	4	5	#	*	*
3 GHz	<u>a</u>	5	7	L+_	*	*	_ 9	4	- 6	8	_6	7	*	*	*
6 GHz	12	7	10		*	*	14	7	10	10	7	9	*	¥	*
18 GHz	28	21	24	4	*	*	29	20	25	28	21	24	*	÷	*
28 GHz	58	42	46	*	*	*	58	41	45	51	43	47	*	*	•

(*) INDICATES INSUFFICIENT DATA

SURFACE RASED DUCT SUMMARY:

SOKEHOE BUSED DOSE	Summer.				
PARAMETER	YERRLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit d&n	day nit din	day nit din	day nit d&n	day nit dan
Percent occurrence	3 4 4	0 0 6	10 0 5	2 7 5	0 9 5
AVG thickness Kft	.10	*	.20	.11	0
AVG trap freq GHz	2.0		2.8	3.1	9
AVG lyr grd -H/Kft	347		173	522	*

ELEVATED DUCT SUMMARY:

FLEANIER DOCT SOURS	<u> </u>														
PARAMETER	Y	ARL'	Y	_J;	BH <u>-</u> HI	AR	A	PR-JI	JH	31	JL-SI	EΡ	00	CT-D	EC
	day	nit	den	day	nıt	dan	day	nit	d&n	day	nit	dun	day	nit	dan
Percent occurrence	2	- 0	1	-3	0	2	1	0	1	Θ	8	0	- 5	8	3
RYG top ht Kft			5.7	l		3.7	i		3.4			*	1		16
RVG thickness Kft			.42	Ĺ		.68	L		.27	Ĺ <u></u>		*	Ĺ		.32
AVG trap freq GHz			• 55			.14			.65			*	Ţ		.85
AVG lyr grd -N/Kft			74			89			64			÷	ĺ		76
AVG lyr base Kft			5.4			3.3			3.2			*			10

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCURRENCE	Y	ERRL	7	J	คห-หเ	RR T	A	PR-J	UH	J	UL-SI	EP	0:	CT-DE	C
		day	nit	din	day	nit	d&n	day	nit	din	day	nit	<u>dŁ</u> n	day	nit	d\$ n
8 40	18 Faet	23	26	24	23	23	23	23	26	24	20	26	23	27	28	2.5
10 to	20 Feet	27	30	28	21	25	23	31	34	33	29	35	32	25	26	25
20 to	30 Feet	20	21	28	19	19	19	_22	28	21	24	22	23	15	20	12
36 to	48 Feet	12	12	12	14	16	15	12	12	12	12	10	11	11	9	10
48 to	50 Feet	5	4	5	6	8	7	3	2	3	5	3	4	6	4	5
50 to	60 Feet	2	2	2	3	3	3	_ 2	2	2	1	1	_1	3	3	3
68 to	70 Feet	1	1	1	1	1	1	1	8	1	1	9	1	1	1	1
70 to	80 Feet	1	0	1	1	1	1	1	8	1	2	8	8	2	9	1
80 to	90 Feet	1	1_	1	_ 1	1	1	Ð	1	1	_ 1	1	1	1	1	1
90 to	100 Feet	1	9	0	1	8	1	0	8	9	1	ย	0	1	8	ì
above	100 Feet	7	4	5	10	3	7	3	3	3	5	1	3	8	7	8
Hean he	ight Feet	31	25	28	37	28	32	25	23	24	59	21	25	34	29	_32_

PARAMETER	YEARLY	JAN-MAR	AFR-JUN	JUL-SEF	OCT-DEC
	day nit dan	day nit dan	day nit dan	day nit dan	day nit dan
% occur EL&SB dcis	0	8	0	0	8
% occur 2+ EL dcts	0	0	9	0	0
AVG station N	314	318	313	313	312
AVG station -N/Kft	12	12	12	12	11
RVG sfc uind Kts	16 16 16	15 15 15	17 16 16	18 17 17	16 15 16

Specified location: Radiosonde source : 87938 54 48 S 68 18 H

Radiosonde station height: 52 Feet

Surface obs source: MS487 55 00 S 75 00 N

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

PERCEN! C	ICCORRENCE (7. 61	TULNE	-En :	SURF	HCE-	10-31	JEFRE	UE N	חוזער	E 311		1, 11,11	363.		
FREC	DUENCY	YI	ARL'	7	J	RH-M	AR .	AI	PR-J	JH	JI	JL-SI	EΡ	Õ	CT-DI	EC
i		day	nit	dan	day	nit	d&n	day	nit	d£n	day	nit	dån	day	nıt	d&n
100	MHz	0	3	1	*	*	*	*	*	*	*	*	*	0	3	1
1	GHz	7	15	11	*	¥	*	*	*	*	*	*	*	7	15	11
3	GHz	7	28	14	*	_ =	¥	*	*	*	*	. *	*	7	20	14
6	GHZ	10	25	17		¥	*	*	*	*	*	¥	*	10	25	17
10	GHz	28	40	34	*	*	*	*	¥	*	+	*	¥	28	48	34
20	GHz	48	59	54	*	¥	*	*	*	. *	*	*	*	48	59	54

(*) INDICATES INSUFFICIENT DATA

SUPERCE RASED DUCT SUMMARY:

PARAMETER	Y	EARL'	7	Ji	PH-MI	AR .	AI	PR-JI	UH	JI	JL-SE	P	0	CT-DI	EC
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	11	6	*	+	#	*	*	¥	0	9	0	0	22	11
AYG thickness Kft	l		.18			*	l		*			*			. 18
AVG trap freq GHz	l		.93	ł		#	l		*			*			.93
AVG lyr grd -N/Kft	1		100			*	1					*			100

ELEVATED DUCT SUMMARY:

AND PROCESSOR REAGNESS. TOOK, WINT BOOKSOND TWO, MANDE OF BOOKSOND BOOKSOND TOOKSOND THE COURS AND POLICEOUS OF

PARAMETER	_ YI	EARL'	Y	J	M-NA	AR	i Ai	APR-JUN			JL-SI	EP	OCT-DEC		
	day	nit	d&n	day	กาเ	dŧ	day	nit	d&n	day	nit	d&n	day	nit	dan
Percent occurrence	8	0	0	*	*	*	*	¥	*	0	- 6	0	8	9	U
AVG top ht Kft	1		*			*	ł		*			*	ŀ		*
AVG thickness Kft	1		*			*	l		*			*			*
AVG trap freq GHz			*			+	П		¥			#			*
AVG lyr grd -N/Kft	1		*	l		+	1		*	!		*	ĺ		*
AVG lyr base Kft	1		*			*	}		*	i		*			*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

EAHLOKI	413	LUN .	DUCT_HIS	STOGE	RAM .	IN P	ERCE	HT O	CCUR	SENCI	E:							
PERCEI	ΉT	OCC	URRENCE	Y	EARL	Y	J	AH-MI	RR	RI	PR-J	UN	J1	UL-31	EP	01	CT-DE	C
				day	nit	d&n	day	nit	dan	day	nit	dtn	day	nit	d&n	day	nıt	d&n
9 1	10	10	Feet	22	23	23	23	19	21	25	31	28	15	22	19	23	21	22
10 1	to	20	Feet	30	32	31	26	26	23	35	37	36	36	33	34	28	31	29
28 1	t o	38	Feet	22	24	23	21	25	23	21	20	21	26	_27	26	21	_ 23	22
30 1	10	40	Feet	14	13	13	16	17	17	12	7	10	15	12	13	14	14	14
48 1	O	50	Feet	3	3	3	4	6	5	2	2	2	3	1	2	4	4	4
58 1	o	68	Feet	2	1	2	4	1	3	2	1	1	1	. 0	1	1	1	1
60 1	٥	70	Feet	1	1	1	1	1	1	0	0	Θ	9	Ð	е	1	1	
76 1	0	80	Feet	1	1	1	2	1	1	0	0	8	9	1	0	9	0	6
88 1	0	90	Feet	_ 1_		- 9	1	_ 6	1	1	. 9	9	1	_ 0_		1	0	8
90 1	l o	189	Feet	1	Θ	0	1	9	1	9	0	0	1	0	9	6	9	3
abov	ve	100	Feet	4	3	4	5	3	4	2	1	2	2	4	3	7	4	5
Hean	he	i gh	t Feet	28	24	26	32	27	_30	22	17	28	25	24	24	31	27	29

PARAMETER	YE	ARL'	Y	JAN-MAR			AF	R-J	JN	JL	IL-SI	EP	OCT-DEC		
	day	nit	d&n	day	nıt	din	day	níţ	den	day	nit	d&n	day	nit	din
% occur EL&SB dcts			0			0			6			9			9
% occur 2+ EL dcts			0			9	l		0			8	1		9
AVG station N			311	1		*			*			398			313
AVG station -N/Kft			11	l		*	ŀ		*	l		11			11
RVG sfc uind Kts	18	:7	18	17	16	17	18	17	18	18	18	18	19	18	19

PERCENT OCCURRENCE	OF E	<u>HHHN</u>	CED :	SURF	HCF-	10-20	UKLH	CE RI	HUHR	/ESM	<u> </u>	KHN	uEJ:			
FREQUENCY	TY	YEARLY			AN-M	RR	A	PR-JI	אע	J	UL-SI	EP	OCT-DEC			
	day	nit	dån	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	dtn	
100 MHz	1 0	0	- 0	0	0	9	Ø	0	- 0	0	8	9	Ø	8	ə	
1 GHz	19	6	12	24	7	16	18	5	11	12	4	8	28	7	13	
3 GHz	24	8	16	32	11	_21	24	7	16	17	6	12	25	9	_17	
6 GHz	51	32	41	58	38	48	53	35	44	46	27	36	46	28	37	
18 GHz	75	66	71	79	70	74	79	69	74	76	69	72	68	55	62	
20 64-	1 24	20	82	1 86	83	94	87	84	86	98	23	94	78	21	75	

SURFACE BASED DUCT	SURRI	<u> </u>													
PARAMETER	YI	EARL'	Υ	J	JAN-MAR			PR-JI	MU	J	UL-SI	P	OCT-DEC		
	day	nıt	d&n	day	ពាដ	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	0	1	1	9	1	3	9	-2	1	- 8	1	2	1	2
AVG thickness Kft	j		.18	1		.13			.20			.17			.23
AVG trap freq GHz			2.9	i		2.9			2.2	1		5.0	!		1.7
AVG lyr grd -N/Kfz			158			256	L		149	L		124	Ì		103

PARAMETER	Y	EARL	Y	J	ลห-พ	AR	- A:	PR-JI	ИU	Ji	JL-SI	EP	00	CT-DI	EC
	day	nit	<u>d&n</u>	day	nit	d&n	day	nit	d&n	day	njt	dan	day	nit	dan
Percent occurrence	26	14	20	25	23	24	30	8	15	28	10	19	20	23	22
AVG top ht Kft			4.2	1		4.4	[4.2			3.9	i		4.3
AVG thickness Kft			.33			.38			. 35	<u> </u>		.29			30
AYG trap freq GHz		_	.52			.39			.39			.61			.67
AVG lyr grd -N/Kft			65	1		63	ĺ		64	ĺ		71			€2
AVG lyr base Kft			4.8			4.1	l		3.9	1		3.8	1		4.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCI	JRRENCE	Y	EARL	r	J	AH-M	BR	l Bi	PR-JI	HU	J (VL-SI	EP	C	CT-DE	EC
			day	nit	din	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nıt	den
0 10	10	Feet	11	12	11	16	11	10	8	10	9	8	- 8	8	16	19	17
10 to	28	Feat	6	8	7	4	8	6	5	6	5	7	9	8	7	19	9
20 to	30	Feet	9	14	12	7	_13	10	9	_15	12	10	14	12	10	_15	13
30 to	40	Feet	12	17	14	10	15	13	12	16	14	16	20	18	11	15	13
48 to	50	Feet	13	17	15	11	16	14	15	17	16	14	21	18	11	14	12
50 10	68	Feet	11	13	12	10	14	12	14	_15	14	13	13	13	9	_11	10
60 to	70	Feet	9	7	8	9	8	9	9	-8	9	10	- 5	8	8	- 5	
70 to	88	Feet	6	4	5	7	5	6	6	5	6	6	2	4	4	3	3
88 to	98	Feet	3	2	2	_4	2	3	3	2	2	3	_ 1	2	3	1	2
98 10	180	Feet	2	1	2	3	1	2	3	1	2	2	8	1	2	1	1
above	100	Feet	18	6	12	24	7	16	17	5	11	12	4	8	20	6	13
Mean he	ght	Feet	66	44	55	77	48	62	66	45	55	57	42	50	63	40	51

PHRHMETER	Y 1	EHKL.	Y	J	nn-n	HR	j Bi	2K-16	J11	31	ルーSE	P.	00	.T-D	:C
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	dan	day	nit	dan
% occur EL&SB dcts			•			. 0			2			- 0			0
% occur 2+ EL dcts			2	1		3	i		2			1	!		2
AVG station N			320			323			319			318			318
AVG station -N/Kft			13	1		13	i		12			12	Į.		12
AVG sfc wind Kts	15	:5	15	14	14	14	16	15	16	17	16	16	14	14	13

54 30 S 158 57 E (*) INDICATES INSUFFICIENT DATA cified location: Rasiosonde source : 94998 54 30 S 158 57 E

Radiosonde station height: 20 Feet

Surface obs source: MS428 35 00 S 155 00 E

PERCENT (OCCURRENCE	OF EI	NHAN(CED S	SURF	ice-i	ro-si	JRFA	E RI	ADAP	ESM	COM	RAN	SES:		
FREC	ZUENCY	Y	EARL	?	31	M-HE	iR	es	R-JI	JN	JI	JL-SI	EP	č	CT-DI	EC
i		day	nit	d&n	day	nit	dan	day	nit	d&n	day	nit	d&n	day	nit	d&n
100	MHz	8	- 6	8	1	- 0	0	0	0	— ē	8	9	0	1	Ø	0
1	GHz	18	8	13	26	10	18	15	8	12	11	5	8	21	8	14
_ 3	GHz	27	12	19	37	16	26	25	15	20	18	8	13	27	11	19
6	GH2	58	43	51	68	51	60	58	47	53	51	39	45	54	35	44
10	GHz	81	75	78	84	78	81	84	77	89	82	76	79	76	68	72
20	GHz	88	85	87	89	86	88	98	87	89	90	86	_ 88	84	98	82

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	SUMMI														
PARAMETER	Y!	EARL'	Y	J	AN-M	AR :	RI	PR-JI	บห	JI	JL-S1	EP	0	CT-D	EC
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	riit	d&n	day	nit	den
Percent occurrence	5	2	3	6	3	5	2	4	3	3	1	2	7	1	4
AVG thickness Kft	ì		. 17	l		. 15	ł		.21	i		.20	ļ		.13
AVG trap freq GH2	i		2.3	l		2.5	l.		1.6	!		1.6			3.4
AVG lyr grd -N/Kft	L		136	L		106			149	l		97			150

PARAHETER	YE	ARL'	ľ	J	AN-HI	RR	FA	R-Ji	אני	Ji	JL-SI	EP	00	T-DE	EC
	day	nıt	d&n	day	nit	d&n	day	nit	dân	day	nit	d&n	day	nit	d&n
Percent occurrence	6	5	5	6	6	6	4	6	5	7	4	- 6	6	2	4
AVG top ht Kft	İ		4.1			4.1	ĺ		4.1	l		4.2	l		4.9
AVG thickness Kft			.21			.25	i		.22	1		.15	l		.24
AVG trap freq GHz			1.2			.98			1.3			2.1			.67
AVG lyr grd -N/Kft			62	Į		66	l		60	l		56	I		67
AVG lyr base Kft			3.9			3.9	ł		3.9	i		4.1	i		3.8

PERCE	NT	OCCU	RRENCE	YE	ARL	r	J	an-M	R	À	P-J	N	J!	JL-SE	P	00	CT-DE	EC
				day	711	d&n	day	nit	d&n	day	nıt	d&n	day	nit	dan	day	nit	dtn
9	to	10	Feet	7	- 8	- 8	8	8	8	6	7	6	6	7	6	11	12	11
10	to	20	Feet	4	7	5	4	6	5	3	6	5	5	7	6	5	7	6
20	to	30	Feet	7	16	9	5	8	7	7	11	9	9	11	10	8	12	10
30	10	40	Feet	11	14	12	8	12	10	11	13	12	13	16	15	11	15	13
40	to	58	Feet	14	18	16	9	16	13	15	17	16	18	21	19	13	17	15
50	to	69	Feet	13	15	14	12	16	14	15	16	15	16	17	16	11	12	12
60	to	70	Feet	11	10	10	11	11	11	11	11	11	11	9	10	9	8	9
78	to	88	Feet	8	6	7	9	8	9	8	7	7	7	5	6	7	5	6
80	to	90	Feet	5	3	4	6	4	5	6	4	_5	4	2	3	3	2	2
98	10	188	Feet	3	2	2	4	2	3	3	2	3	2	1	2	2	i	1
abo	VE	100	Feet	17	7	12	24	9	17	15	7	11	10	5	8	19	7	13
Hear	h	ight	Feet	68	51	68	79	56	68	67	52	60	59	48	53	68	49	58

PARAMETER	Ϋ́I	ERRL		31	H-H	18	AP	R-J	JH	JU	IL-SI	P	Q	T-D	EC
	day	nit	d&n	day	nit	dan	day	nit	đản	day	nit	dŧn	day	nit	dīn
% occur EL&SB dcts			0			0			Θ			0			1
% occur 2+ EL dcts			9			í	-		9			Θ			1
AVG station N			315			315	l		314			315	i		314
AVG station -N/Kft			12			12			12			12	•		12
AVG sfc wind Kts	16	15	15	15	15	15	16	15	15	16	15	16	15	15	15

HISTORICAL PROPAGATION CONDITIONS SUMMAPY IREPS REV 2.1

(*) INDICATES INSUFFICIENT DATA Specified location: 65 00 S 15 00 W

Radiosonde source : 89001 70 19 S 2 22 W

Radiosonde station height: 171 Feet Surface obs source: HS486 55 00 S 65 00 H

PERCENT OCCUPPENCE OF ENHANCED SUPERCE-IO-SUPERCE PARAPVESM/COM PANCES:

FRE	RUENCY		ERRL	<u>Y</u>	J	AN-M	ìR	A	R-J	UN	J	JL-S	EΡ	0	CT-DI	EC
				-		nit				-						
100	MHz	*	*	*	*	*	*	*	*	*	*	+	÷	#	7	*
1	GHZ	j *	*	*	*	*	*	*	*	*	÷	*	+	*	÷	*
3	GHz	*	*	*	*	7	*	*	4	*	¥	*	*	¥	. *	
6	GHZ	*	¥	*	+	*	+	*	¥	+	+	-	+	+	*	*
18	GHz		*	*		*	*	≰	*	*	*	*	*	*	*	*
28	GHz		*	+		*	*		*	*	*	*	*	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YI	ARL'	7	J	AN-M	ìR	AF	R-JI	JИ	JI	JL-SI	P	01	T-DI	ΕÚ
	day	<u>nit</u>	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	การ	G&n
Percent occurrence	9	8	Ð	0	- 0	9	9	8	8	9	- 6	9	9	0	9
RVG thickness Kft	i		*	1		*	!		*	ŀ		*	l		*
AVG trap freq GHz	ĺ		*	ĺ		*	(+	i		±	(*
AVG lyr grd -N/Kft	,		#	1		#	i		*			*	1		+

ELEVATED DUCT SUMMAN	(Y;														
PARAMETER	YE	ARL	Y	Ji	ลม-ห	ŔR	RI	PR-JI	UN	J	UL-S!	EP	00	CT-D	EÇ
	day	nit	d&n	day	nit	a&n	day	nit	dån	day	กาเ	din	day	การ	ds n
Percent occurrence	0	1	0	8	9	9	8	-0	-0	0	2	1	0	1	1
AVG top ht Kft			3.7	1		*	1		#	1		ŧ	l		3.7
AVG thickness Kft		_	.13			*	L _	_	*	İ		.19	L		50.
AVG trap freq GHz			2.7			*			*	ſ		1.0			4.4
AVG lyr grd -N/Kft			68	1		*			-	l		*	ł		68
AVG lyr base Kft	<u>[</u>	_	5.8			+			*	[_	7.9	[3.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT OCC	URRENCE	Y	EARLY	ř	J	H-HI	R.	Al	P19	JH	J	UL-SI	EP	00	T-DE	EC
		day	n15	d&n	day	nis	d&n	day	nit	d&n	day	nit	d&n	day	กเเ	ರಹಿಗ
0 to 10	Feet	23	26	24	23	23	23	23	26	24	20	26	23	27	28	7
10 to 20	Feet	27	30	28	21	25	23	31	34	33	29	35	32	25	26	25
20 to 30	Feet	_20	_21	28	19	19	19	22	20	21	24	22	23	15	28	18
38 to 40	Feet	12	12	12	14	16	15	12	12	12	12	10	11	11	- 9	10
40 to 50	Feet	5	4	5	6	8	7	3	2	3	5	3	4	6	4	5
50 to 60	Feet	2	2	_2	3	3	3	2	2	2	_1	_1	1	3	3	3
60 to 70	Feet	1	ī	1	1	1	<u> </u>	1	0	1	1	-0	1	1	1	1
70 to 80	Feet	1	8	1	1	1	1	1	8	1	1	0	0	2	0	1
£8 to 98	Feet	_ 1_	1	1	1	1	1	8	1	1	_ 1	1	1	1	1	1
90 to 100	Feet	1	9	8	1	. 0	1	0	0	- 0	1	9	9	1	- 0	1
above 188	Feet	7	4	5	10	3	7	3	3	3	5	1	3	8	7	8
Hean heigh	t Feet	_ 31	25	_28	37	_28	32	25	23	24	29	21	25	34	29	32

PARAMETER	YER	RLY	•	JE	H-H	1R	RF	R-JI	JN	Ji	JL-SE	Р	00	T-DE	ΕÇ
	day r	ri t	din	day	nit	dsn	day	nit	d&n	day	nit	dån	day	nit	den
% occur EL&SB dcts			В			θ			0			6			3
% occur 2+ EL dcts			8			6	i		8			6			Θ
AVG station N			308			305			308	Į.		312	1		365
AVG station -N/Kft			13			12			14	İ		14			12
AVG sfc wind Kts	16	16	16	15	15	15	17	16	_16	18	17	17	16	15	16

Specified location: 60 45 S 44 43 H (*) INDICATES INSUFFICIENT DATA Radiosonde source: 88968 60 45 S 44 43 H Radiosonde station height: 13 Feet

Radiosonde station height: 13 Feet Surface obs source: HS486 55 00 S 63 00 H

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM PANGES

PERCENT OCCURRENCE	UF E	IRAA	ED :	JUKE	<u> </u>	10-30	UKFN	LE KI	TURK	£3112	CON	FRIII	35 3.		
FREQUENCY	Y	EARL'	4	J	AN-M	RR	- AI	PR-J	บห	J:	IL-SE	P	0(CT-DE	EC
1	day	nit	d&n	day	กาเ	dan	day	nit	dan	yet	nit	din	day	nit	den
108 MHz	9	- 8	9	*	*	*	T #	*	*	9	ह	8	8	8	8
1 GHz	7	5	6	*	*	*	*	*	4	5	2	4	9	7	8
3 GHz	9	6	8	L *	*	*	*	+		_ 7	3	5	11	9	18
6 GHz	13	9	11	*	*	*	*	¥	+	9	5	7	17	13	15
10 GHz	30	22	26	÷	*	#	*	*	*	27	18	22	34	26	38
28 GHz	50	43	46	*	*	*		+	. *	51	40	45	49	46	47

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SURFACE BASED BUCT SUMMARY:

PARAMETER	YE	ARL'	7	31	H-HE	ìR	AI	PR-JU	JN	J	JL-SI	P	0	CT-DI	EC
<u> </u>	day	ntt	d&n	day	nit	d&n	day	nit	d&n	day	nit	den	day	กาะ	dan
Percent occurrence	0	1	- 0	- 0	8	8	0	6	Ą	8	2	1	1	0	1
AYG thickness Kft	i		.16	ĺ		÷	ļ		*	l		.15	1		.16
AVG trap freq GHz			2.4	1		¥	1		*			2.3			2.5
AVG lyr grd -N/Kft	_		93	L		*	İ		*	L		93		_	_93

ELEYATED DUCT SUMMARY:

PARAMETER	YI	EARL	Y	J	ลห <u>-ห</u> เ	AR .	A	R-J	אנ	7	UL-SI	EP	0	CT-D	EC
	day	nit	d£n	day	nit	d&n	day	nit	dan	day	<u>ni</u> t	dan	day	nst	den
Percent occurrence	1	1	1	9	2	1	1	0	1	1	0	1	8	1	1
AVS top ht Kft	l		3.5	İ		3.9	ŀ		3.1	ŀ		3.2	l		3.8
AVG thickness Kft	[_		.21	Í		. 13	[.36	ĺ		.28	Ī		. 14
AYG trap freq GHz			1.5			1.3			1.9			1.3			1.5
RVG lyr grd -N/Kft	1		88	ļ		115	1		127			54	l		56
AVG lyr base Kft	;		3.4	1		3.8	i		3.0			3.9	ŀ		3.7

EVAPORATION DUCT HISTOGRAM IN PEPCENT OCCURRENCE:

PERCENT	OCC	URRENCE		ARL			an-Ha			PR-JI			ひんーら			CT-DE	
			day	nit	d&n	day	nit	dan	day	nit	<u>d&n</u>	day	nit	den	day	nit	đần
9 10	10	Feet	23	26	24	23	23	23	23	26	24	20	26	23	27	28	27
18 to	26	Feet	27	30	28	21	25	23	31	34	33	29	35	32	25	26	25
20 to	30	Feet	26	21	28	19	19	19	22	20	21	24	22	23	15	20	18
30 to	46	Feet	12	12	12	14	16	15	12	12	12	12	10	11	11	9	10
40 to	50	Feet	5	4	5	6	8	7	3	2	3	5	3	4	6	4	5
_ 50 to	60_	Feet	_2	2	2	_3	3	3	2	2	_ 2	. 1	1	1	3	3	3
50 to	70	Feet	1	1	1	1	1	í	1	8	1	1	Ð	1	1	1	1
70 to	80	Feet	1	8	1	1	1	1	1	9	1	1	8	0	2	0	1
98 10	98	Feet	1_	1	1	_ 1	1	1	9	1	1	_ 1	_ 1	_1	1	1	1
90 to	100	Feet	1	6	8	1	0	1	9	0	8	1	0	Ð	1	3	1
above	103	Feet	7	4	5	10	3	7	3	3	3	5	1	3	8	7	8
Mean he	e i ghi	Feet	31	25	28	37	28	32	25	23	24	29	21	25	34	29	32

FRENCEIER	16	nKL.		J	MH-U	nK .	, n	-K-1:	JN .	ļ J1	JL-51	٠,	յ Սև	1-412	:::
	day	nit	d&n	day	nit	d&n	day	กาเ	dŁn	day	nit	d&n	day	nit	n3b
% occur EL&SB dcts			0			0			0			9			8
% occur 2+ EL dcts			8	İ		9			9			9	1		0
AVG station N			368	l		308			308			308	i .		307
AVG station -N/Kft			11			11			12			12	i		ii
AVG sfc wind Kis	16	16	16	15	15	15	17	16	16	18	17	17	16	15	16

IREPS REY 2.1

HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location:

62 12 S 58 55 H

(+) INDICATES INSUFFICIENT DATE

Radiosonde source : 89050 62 12 S 58 55 W Radiosonde station height: 52 Feet

Surface obs source: NS486 55 00 S 65 00 H

DEDCENT OCCUPRENCE OF ENHANCED SUPERCE-TO-SUPERCE DATER FOR CON DANCES.

PERCENT C	CCOKKENCE	0, 2	11111111	<u> </u>	JUK!	nu-	10-3	OKT III	CE R	HI WILL	C 21.	. 011	WL11	<u> </u>		
FPEC	DUENCY) Y	EARL	Y	J	AH-H	AR	A	PR-J	UH	J	UL-S!	EP	0	CT-DE	EC
l		day	nit	dŁn	day	nit	dŁn	day	nit	dŁn	day	nit	dlan	day	nit	din
166	HHZ	0	- 6	0	+	+	*	(*	*	+	+	*	*	9	9	6
1	GHz	8	8	8	*	#	-	*	*	-	+	*	*	8	8	35
3	GHz	11	10	10	*	*	- 3	*	*	. *		÷		11	10	10
6	GHZ	16	14	15	*	*	*	*	+	*		*	Ŧ	16	14	15
10	GKZ	33	27	38	*	*	*	1	*	+) ±	*	*	33	27	39
20	GH≾	48	47	47		*	*	*	4	ŧ	۰	*	•	48	47	47

SURFACE BASED DUCT SUMMAPY:

PARAMETER	YEARLY	JAN-KAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit dan	day nit dan	day nit den	day nit den	day nit dan
Percent occurrence	e 1 6	0 9 0	9 8 6	0 8 8	8 2 1
AVG thickness Kft	.22			*	.22
AVG trap freq GHz	1.6			i *	1.6
AVG lur grd -N/Kft	59	*	*	•	59

ELEVATED DUCT SUMMARY:

ECCTIVED BOC SOUTH															
PARAMETER	Y	EARL'	Y	į Ji	AN-H	AR	; AI	PR-J1	иų	J	ノレー\$1	EP) O	CT-DI	EC
	day	nit	dkn	day	ព្យ	din	day	nit	dŁn	dav	412	din	day	nit	den
Percent occurrence	8	1	1	0	3		Ø	9	Ø	0	0	0	8	2	ī
AVG top ht Kft			5.8	}		5.4	1			1		*	ŀ		3.6
AVG thickness Kft			.41	!		. 35	Į			ĺ		*	•		. 47
AYG trap freq GHz			.29			.37			*			*			.20
AVG lyr grd -N/Kft			93	1		107	ì		*	l .		•	1		79
AVG lyr base Kft			4.8			6.3			•	L		*			3.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCURRENCE	YI	EARL'	Y	J	AN-H	ñR	Fil	PR-J	UH	3	JL-SI	EP	00	T-DE	C
		day	nıt	dan	day	nit	dån	day	nit	din	day	nit	d&n	dav	nit	din
6 10	10 Feet	23	26	24	23	23	23	23	2€	24	20	26	23	27	28	27
10 10	20 Feet	27	38	28	21	25	23	31	34	33	29	35	32	25	26	25
20 to	30 Feet	20	21	58	19	19	19	22	_28	21	24	22	23	15	28	18
30 to	40 Feet	12	12	12	14	16	15	12	12	12	12	13	11	11	9	.0
48 10 3	50 Feet	5	4	5	6	8	7	3	2	3	5	3	4	6	4	5
58 to	68 Feet	_2	_ 2	2	3	3	3	_2	2	2	_ 1	1	1	3	3	3
69 to 1	70 Feet	1	1	1	ī	1	1	1	0	1	1	- 0	1	1	1	1
78 to 1	80 Feet	1	9	1	1	1	1	ı	8	1	1	8	0	2	0	1
SØ to 9	90 Feet	_ 1	1	1	1_	1	1	8	1	1	1	. 1	1	1	1	1
98 to	120 Feet	1	Ø	ઇ	ī	9	1	8	9	6	1	8	6	7	8	1
above :	108 Feet	7	4	5	18	3	7	3	3	3	5	1	3	8	7	8
Hean he	ight Feet	31	25	28	37	28	32	25	_ 23	24	29	21	25	34	29	32

GENERAL HETEOROGOST	201111		<u> </u>										_		
PARAMETER	YE	ARLY	7	36	H-K	1 સ	RP	R-JI	JH	Jı	IL-SI	P	0(T-DI	EC
	day	111	din	day	nit	d\$n	day	nit	dån	day	nit	dan	day	nit	dkn
% occur ELESS dets			8	i		θ			8			8	1		8
% occur 2+ EL dets	i		อ	ł		8	!		9			9	i		Ð
AVG station N	ĺ		388	İ		388			387			398	ŀ		364
RVG station -N/Kft			11			11			11			11	1		11
AVG sec used Kts	16	16	16	15	15	15	_17	16	16	18	17	17	16	15	1€

64 16 H

Contract the contr

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. . Specified location:

Radiosonde source : 88952 65 15 S 64 16 M Radiosonde station height: 30 Feet

Radiosonde station height: 30 Feet Surface obs source: MS486 55 00 S 65 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SUPFACE RADAR/ESM/COM RANGES:

65 15 S

TENCETT OCCUMENTED	<u>, , , , , , , , , , , , , , , , , , , </u>	****		<u> </u>		<u> </u>	<u> </u>					*****	350		
FREQUENCY	Y	ERRL'	Y	3	ลห~หเ	R	A	PR-JU	in_	Ji	UL-SI	EP	0	CT-DI	EC
	day	nit	dŁn	day	nit	d&n	day	nit	dan	day	nit	din	day	nit	d\$n
100 HHz	8	0	6	0	0	- 0	3	8	Ø	*	*	*	9	- 0	0
1 GHz	8	5	6	10	3	7	3	3	3		*	•	9	7	8
3 SHz	10	6	_ 8	12	4	_ 8	_4	4	_ 4	*	•	*	12	9	10
6 GHz	15	9	12	18	9	13	9	7	8	*	+	*	13	13	15
10 GHz	32	26	29	38	32	35	24	20	22	+	*	*	35	26	30
20 GHz	51	46	48	57	52	54	46	41	43	<u> </u>	#	*	50	46	48

SURFACE RASED DUCT SUHMARY:

SOREHCE BUSEN DOCT S	NUUUN	412													
PARAMETER	YER	RLY	·	J.	RN-M	AR	A	PR-JI	אנ	Ji	JL-SI	EP	0	CT-DI	EC
	day r	nit.	dan	day	nit	ರ೩n	day	nit	dŁn	day	ភារ	d£n	day	nit	dtn
Percent occurrence	2	0	<u> </u>	2	Ð	1	1	8	1	0	e	- 6	3	8	
AVG thickness Kft			.11	1		.68	1		.12	1		#	i		.12
AVG trap freq GHz			4.7			8.7			2.3			*	1		3.1
AVS lyr grd -N/Kft	_		238	l					353			*	Ì		124

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY		Ji	RH-M	R.	R	R-J1	JH.	1	9191ر	F	0	CT-DI	EC
	day nit	dan	day	nit	d&n	day	nit	d&n	day	nit	din	day	nit	dzn
Percent occurrence	1 6	1	1	9	1	2	8	1	Ø	0	0	1	0	<u>1</u>
AVG top ht Kft		2.3	l		1.5			4.5			*	i		.83
AVG thickness Kft		. 36	L		.39			.12	<u> </u>		. 28	i _		.58
AVG trap freq GHz		1.2			.74			3.1			.82			.15
AYG lyr grd -N/Kft		81	l		62	ŀ		77						103
AVG lyr base Kft		3.4	l		1.3	L		4.4	•		7.1			-61

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

EANLOWHITON DOC! H		KIND .	IN P	ERCE	<u> </u>	COKI	CENCE	<u> </u>	_						
PERCENT OCCURRENCE	[Y	EARL'	Y	j	AN-มเ	RR	Fi!	アーブリ	JN	3	JL-SI	EP	00	T-DE	C
	day	nit	ರಹಿಗ	day				nit	ರಸಿಗ	day	nit	džn	day	nit	d&n
0 to 10 Feet	23	26	24	23	23	23	23	26	24	20	26	23	27	28	27
18 to 20 Feet	27	30	28	21	25	23	31	34	33	53	35	32	25	26	25
_20 to 30 Feet	20	_ 21	28	19	19	19	_22	20	21	24	22	_23	15	28	18
30 to 40 Fret	12	12	12	14	16	15	12	12	12	12	10	11	11	9	18
4é to 58 Feet	5	4	5	6	8	7	3	2	3	5	3	4	įε	4	5
50 to 60 Feet	2	2	2	3	3	_ 3	_2	2	_ 2	1	3	1	3	3	3
60 to 70 Feet	1	1	1	1		1	1	0	1	1	0	1	1	1	1
78 to 88 Feet	1	8	1	1	1	1	1	8	1	1	8	8	2	8	1
80 to 90 Feet	<u>i 1</u>	_ :	1	_ 1	1	1	9	1	1	_ 1	1_	. 1	1	1	1
90 to 100 Feet	1	8		1	8	1	0	0	0	1	0	0	1	8	1
above 100 Feet	7	4	5	10	3	7	3	3	3	5	1	3	8	7	8
Hean height Feet	31	25	28	37	28	32	25	23	24	29	21	25	34	29	32

ı	PAKAKETER	YE	ARLY	1	Jf	H-HF	R) AF	ねーリ	JH	JU	JL-SE	P	00	T-Di	EC
1		day	nit	dtn	day	nit	dŧn	day	nit	dtn	day	nıt	dan	day	nit	dtn
1	% occur EL&SB dcts			- 0			. 8			8			9			0
	% occur 2+ EL dcts			0			8			8			8			Ð
ı	AVG station H			385			385	İ		305			305			305
1	AVG station -N/Kft			11			12			11			12			12
Į	AVG set wind Kis	16	16	16	15	15	15	17	16	16	18	17	17	16	15	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMERY

Specified location: 65 88 S 75 88 W (+) INDICATES INSUFFICIENT DATE

Radiosonde source: 88952 65 15 S 64 16 H Radiosonde station height: 38 Feet

Surface obs source: MS487 55 88 S 75 88 H

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

EKCENI OCCOKKE	*CL 0: L	111111111	<u> </u>	<u> </u>	1106	. 0	UP 1 111	<u> </u>	DITE	LOU	COIL	Kind	<u> </u>		
FREQUENCY	Y	ERRL	Y	Ji	RN-M	RR	R	PR-Ji	JK	J	UL-S	EP	00	CT-DE	EC
	iday	nit	den	day	nit	ರಕ್ಕೂ	day	nit	dŁn	day	nit	d£n	day	nit	din
188 MHz	e	ē	8	9	9	0	8	9	-0	*	4	•	6	e	8
1 GHz	9	3	4	6	3	5	3	1	2	+	*	*	7	4	6
3 GHz	7	3	5	8	4	G	[4	1	2	4	*	*	9	5	?
6 GHz	11	6	8	16	7	11	6	2	4	*	+	*	12	- 8	10
10 GHz	[28	22	25	35	38	33	28	12	16	*	÷	•	29	26	27
20 GHz	49	45	47	57	55	56	41	32	37		*	*	50	48	49

SURFACE BASED BUCT SUMMARY:

COM TICE DISCED DOOL C					
PARRMETER	YEARLY .	JAH-MAR	APR-JUN	JUL-SEP	OCT-DEC
	day nit da	day nit dtn	day nit dên	day nit din	day nit dan
Percent occurrence	2 6	2 8 1	1 6 1	8 8 8	3 8 2
AVG thickness Kft	.1	.08	.12	•	.12
AYG trap freq GHz	4.	? 8.7	2.3	*	3.1
AVG lur grd -N/Kft	23	<u>*</u>	353	•	124

ELEVATED DUCT SUMMAPY:

PARAMETER	Y	HRL	Y	Ji	AH-H	AR	R	2R-30	אנ	Ji	JL-SI	EP.	Ö	CT-PI	EC
	day	nit	d&n	day	nit	dŁn	Cay	nit	d&n	day	nit	d&n	day	nit	dŁn
Percent occurrence	1	0	<u>ī</u>	1	8	1	5	8	1	8	8	9	ī	9	
RVG top ht Kft			2.3	J		1.5	1		4.5	ļ		•			.83
AVG thickness Kft			.38			.39			. 12	l		.28			.58
AVG trap freq GHz			1.2			.74			3.1			.82			.15
AVG lyr grd -N/Kft			81			62			77	l		#			103
AVG lur base Kft			3.4			1.3			4.4			7.1	i		.61

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	000	URRENCE	Ϋ́I	ARL	7	J	ลห-สเ	RR	Ñ	PR+JI	JN	J	JL-SE	P	00	T-DE	C
L			day	nit	din	day	nit	dan	day	nit	dan	day	nit	d£n	day	nit	din
8 10	10	Feet	22	23	23	23	19	21	25	31	28	15	22	19	23	21	22
10 to	28	Feet	30	32	31	20	26	23	35	37	36	36	33	34	28	31	29
28 10	30	Feet	22	24	23	21	25	23	21	29	_ 21	26	27	_26	21	23	22
30 to	40	Feet	14	13	13	16	17	17	12	7	10	15	12	13	14	14	14
49 to	58	Feet	3	3	3	4	6	5	2	2	2	3	1	2	4	4	4
50 to	60	Feet	2	_1	_ 2	4	1	3	2	. 1	1	1	8	1	1	1	2
66 to	70	Feet	1	ī	1	1	1	1	8	0	0	0	Ø	8	1	1	1
78 to	88	Feet	1	1	1	2	1	1	9	3	9	8	t	0	9	8	0
80 to	98	Feet	_1_	. 9	9	1_1	0	1	_1	e	. e	1	8	8	1	8	6
98 to	106	Feet	1	0	8	1	Ø	1	8	Ö	Ø	1	8	8	9	8	8
above	100	Feat	4	3	4	5	3	4	2	1	2	2	4	3	7	4	5
Mean h	righ	t Feet	28	24	26	32	27	39	22	17	28	25	24	24	3;	27	29

PARAMETER	YERRLY	JAN-MAR	APR-JUN	JUL-SEF	OCT-DEC
1	day nit di	niday nit din	day nit dan	day nit dên	day nit dan
% occur EL&SB dcts	I	0 0	0	8	9
% occur 2+ EL dcts	ŀ	8 8] 8	9	0
AVG station N	38	5j 305	395	395	305
AVG station -N/Kft	1	1 12	11	12	12
AVG sfc wind Kts	18 17 1	8 17 16 17	18 17 18	18 18 18	19 18 19

(+) INDICATES INSUFFICIENT DATA Specified location: 65 00 S 85 00 W 65 15 S 64 16 W Radiosonde source : 88952 Radiosonde station height: 30 Feet

Surface obs source: MS487 55 89 S 75 88 N

PERCENT GCCUPRENCE	OF ENHANCED	SURFACE-TO-S	URFACE RADAR	ESM/COM RAN	GES:
FREQUENCY	YERRLY	JAN-MAR	APR-JUH	JUL-SEP	OCT-DEC

1			day	nit	dŁn	day	nit	d&n	day	nit	din	day	nit	d&n	day	nit	ぴをわ
- [168	HHZ	9	9	- 0	6	8	8	8	0	0	*	*	*	0	8	- 0
- [1	GHz	5	3	4	6	3	5	3	1	2	*	*	#	7	4	6
١	3	GHz	7	3	5	8	4	- 6	4	. 1	2		*	*	_ 9	5	_ 7_
ı	6	GHz	11	6	- 8	16	7	11	6	2	4	#	*	*	12	8	18
- (18	GHz	28	22	25	35	38	33	28	12	16	*	Ŧ	ŧ	29	26	27
- 1	28	GHZ	49	45	47	57	55	56	41	_ 32	37	+	*	÷	50	48	49

SURFACE BASED DUCT SUMMARY:

PARAMETER	YI	EARL	Y	J	AN-M	AR	A	PR-J	UN	J(UL-SI	ΕP	Ō	CT-DI	EÇ
	day	nit	d&n	day	nit	dŁn	day	nit	d£n	day	nit	d£n	day	nit	d&n
Percent occurrence	2	9	1	_ 2	0	1	1	9	1	0	8	0	3	0	_2
AYG thickness Kft	i		. 11	l		.08	1		. 12	l		#			.12
AVG trap freq GHz	!		4.7			8.7			2.3	l		*			3.1
OUC I and much	ł		220	I			l		252	•			1		124

ELEVATED DUCT SUMMARY:

FRENCETER	, ,,	CUVE		, ,,	414-11	nr.	1 171	- K - J	UM	, ,,	JE-3		, 0	C 1 D	
<u> </u>	day	nit	dån	day	nit	d&n	day	nis	d&n	day	nít	d&n	day	nit	din
Percent occurrence	1	- 0	1	1	- 0	1	2	0	1	9	9	- 0	1	. 0	1
AVG top ht Kft			2.3	ļ		1.5	į		4.5	l			l		.83
AVG thickness Kft	Ĺ		.30	ł		.38	l		.12			.20			.58
AVG trap freq GHz			1.2			.74			3.1			.82			.15
AVG lyr grd -N/Kft			81	ŀ		62	1		77	1		*	ł		103
AVG yr base Kft	L		3.4	<u> </u>		1.3	<u> </u>		4.4	<u> </u>		7.1			.61

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCC	JRRENCE	YE	ERRLI	ľ	Ji	an-Hi	AR.	i Al	PR-J1	אט	j J(JŁ-SI	EΡ	C1	CT-DE	EC
			day	nıt	dan	day	nit	d&n	day	nit	d&n	day	nit	dån	day	nit	din
0 10	10	Feet	22	23	23	23	19	21	25	31	28	15	22	19	23	21	22
10 to	20	Feet	30	32	31	28	26	23	35	37	36	36	33	34	28	31	29
20 to	30	Feet	22	24	23	21	25	23	21	_ 20	21	26	_27	26	2:	23	22
30 tc	40	Feet	14	13	13	16	17	17	12	7	18	15	12	13	14	14	14
40 to	58	Feet	3	3	3	4	6	5	2	2	2	3	1	2	4	4	4
50 to	60	Feet	2	1	2	4	1	_3	<u> </u>	. 1	1	_1	. 0	1	1	1	_ 1
60 to	70	Feet	1	1	1	[i	1	1	0	9	- 0	0	8	0	1	1	1
78 to	88	Feet	įı	1	1	2	1	1	0	9	8	9	1	6	0	Θ	0
80 to	98_	Feet	1 1	8	6	1	0	1	1	. 0	в	1	8	9	1_	9	_ 0
90 tc	190	Feet	1	0	8	1	0	1	0	9	0	1	0	0	0	9	0
above	100	Feet	4	3	4	5	3	4	2	1	2	2	4	3	7	4	5
Hean +	eighi	Feet	28	24	26	32	27	38	22	17	20	25	24	24	31	27	29

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YE	RRLY	r	J	RN-H	R R	RF	'R−J{	JN I	31	JL-5!	EP	91	וע-СТ	EC .
	day	nit	din	day	nit	d&n	day	การ	din	day	nit	dån	day	nit	dan
% occur EL&SB dcts			9			Θ	í		ð			0			0
% occur 2+ EL dcts			Θ			8			9			8			8
AVG station N	l		395			365			305			305			385
AVG station -H/Kft	I		11	l		12	1		11			12			12
AVG sfc wind Kts	18	17	18	17	16	17	18	17	18	18	18	18	19	18	19

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

65 00 S 95 00 H Specified location: Radiosonde source : 88952 65 15 S 64 16 H

Radiosonde station height: 30 Feet Surface obs source: MS487 55 00 S 75 00 H

PEPCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESH COM RANGES:

	FREG	ZUENCY	Ϋ́	EARL'	Y	J1	ลห-หเ	RR	ន	PR-JI	JH	J	UL-SI	EP -	01	CT-DI	EC
1			day	nit	_d&n	day	nit	d <u>tn</u>	day	ni t	dŁn	day	nit	_d&n	day	nit	dtn
	100	MHz	9	9	0	Ð	0	0	0	e	0	*	+	+	9	- 0	0
ł	1	GHz	5	3	4	6	3	5	3	1	2		*	•	7	4	ő
í	3	GHz	7	3	5	8	4	6	4	1	2		*	*	9	5	7
	- 6	GHz	11	6	8	16	7	11	6	2	4		*	*	12	8	19
i	10	GHz	28	22	25	35	30	33	20	12	16	*	¥	*	29	26	27
1		GHz	49	45	47	57	55	56	41	32	37	+	*	4	58	48	49

(+) INDICATES INSUFFICIENT DATA

SUPFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	J	AH-H	AR	A	PR-J	UN	31	UL-51	ΕP	0	CT-D	ĒČ
	day	nit	d&n	day	nit	d <u>kn</u>	day	ni t	dŧn	day	nit	_d&n	day	nit	dan
Percent accurrence	2	-Θ	-1	2	- 0	1	1	9	1	Θ	6	Θ	3	- 8	2
RYG thickness Kft	[.11	ĺ		.08	ĺ		.12			*	1		.12
AVG trap freq GHz			4.7	ì		8.7			2.3			*	ļ		3.1
AVG lyr grd -N/Kft			238			•	Ĺ		353				L		124

FLEANIED DOCT SOURH	(1)														
PARAMETER	Ϋ́Ε	ARLY	7	J	AH-M	AR	AI	R-J	אט	JI	JL-SI	EP	O	CT-D	EC
	day	nit	dŧn	day	nit	džn	day	nit	d&n	day	nit	d&n	day	nit	dan
Percent occurrence	1	- 0	1	1	0	1	2	0	1	9	- 0	- 0	1	0	:
AYG top ht Kft			2.3	1		1.5	l		4.5			*			.83
RVG thickness Kft			.38	<u> </u>		.30			.12			.20			.58
AVG trap freq GHz			1.2			.74			3.1			.82			.15
AVG lyr grd -N/Kft			81	i		62			77	ŀ		*			103
AVG lyr base Kft	Ĺ		3.4	<u> </u>		1.3	L		4.4			7.1			.61

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCE	NT	occu	JRRENCE	Y	ARL	7	J	คท-หเ	RR	AI	PR-JI	UN	J	UL-SI	ΕP	0	CT-D	EC
				day	nit	den	day	nit	d&n	day	nit	d&n	day	nit	d&n	<u>idav</u>	การ	dün
0 1	to	10	Feet	22	23	23	23	19	21	25	31	28	15	22	19	23	21	22
10 1	to	28	Feet	30	32	31	29	26	23	35	37	36	36	33	34	28	31	29
20 1	to	38	Feet	22	24	23	21	25	23	21	20	21	2€	27	26	21	23	22
30 1	03	40	Feet	14	13	13	16	17	17	12	7	10	15	12	13	14	14	14
40 1	t o	50	Feet	3	3	3	4	6	5	2	2	2	3	1	2	4	4	4
_ 59_1	to	60	Feet	2	1_	2	4	1	3	2	1_	1	1	Ø	1	1	1	1
60 1	to	70	Feet	1	1	1	1	1	1	3	- 0	е	9	0	Ü	1	1	1
76 :	0	89	Feet	1	1	1	2	1	1	0	Ø	8	9	1	Θ	[0	8	3
80_1	LO_	98 _	Feet	1	0	9	_ 1	0	1	_ 1	_ 0	. 0	1	_ 0	9	1	8	. 0
99 1	0	100	Feet	1	8	9	1	9	1	Θ	0	0	1	8	9	0	8	Θ
abou	Je.	180	Feet	4	3	4	5	3	4	2	1	2	2	4	3	7	4	5
Hean	he	ight	Feet	28	24	26	32	27	38	22	17	20	25	24	24	31	27	29

GENERALE HETEOROGOGI								_		_					
PARAMETER	YE	ARL'	Y	J	AN-H	AR	A.F	R-J:	JH	- 31	リレーSI	P	06	CT-DI	EC
	Gay	nit	d&n	day	nit	din	day	nıt	d\$n	day	nit	dan	day	nit	din
% occur EL&SB dcts	i		9			8			0			6			
% occur 2+ EL dcts			8			8			8			6	Ī		0
AVG station N			385	ĺ		305	i		305	ļ		365			395
AVG station -H/Kft	1		11	ŀ		12	l		11	ļ		12	i		12
AVG sfc wind Kts	18	17	18	17	16	17	18	17	18	18	18	18	19	18	19

(*) INDICATES INSUFFICIENT DATA

Specified location:

65 00 S 105 00 H 65 15 S 64 16 H Radiosonde source : 88952

Radiosonde station height: Surface obs source: MS487

30 Feet 55 00 S 75 00 H

DEDCENT (COMPDENCE OF ENGANCED CHREGOS-TO-CHREGOS PARAD/FON/ON PANCES.

PERCENT OCCUPRENCE	QF E!	инани	CED S	SURF	RCE-1	10-SI	JPFRI	E KI	IDHK.	/ESM	/UUM	RHN	455:		
FREQUENCY		ARL			RN-MS			R-JU			UL-S			נת-דם	
	day	nit	din	day	nit	dån	day	nit	dŧn	day	nit	dan	day	nit	dŁn
100 MHz	0	0	8	0	8	8	Ø	- 0	9	*	*	*	9	. 6	8
1 GHz	5	3	4	6	3	5	3	1	2	*		*	7	4	6
3 GH2	7	3	5	8	4	6	4	1	2	+			9	5	
6 GHz	11	6	8	16	7	11	6	2	4	*	*	#	12	8	10
10 GHz	28	22	25	35	38	33	28	12	16		*	*	29	26	27
20 GHz	49	45	47	57	55	56	41	32	37	÷	*	ŧ	50	48	49

SUPERCE ROSED DUCT SUMMARY:

PARAMETER	Y	ERRL'	Ý -	.1	AN-M	RR .	35	R-JI	IN	31	JL-SI	EP	00	CT-DI	EC
			•										day	nit	dŁn
Percent occurrence		0	1	2	8	1	1	9	1	e	0	0	3	8	<u>z</u>
AVG thickness Kft			.11			.08	ŀ		.12	1		*			.12
AVG trap freq GHz			4.7	i		8.7	l		2.3			*	1		3.1
AVG lyr grd -N/Kft			238			*			353	<u> </u>		+	L		124

ELEVATED DUCT SUMMARY:

PARAMETER	Ÿ	EARL'	Υ	Ji	H-HA	AR .	AF	R-J1	JH	JI	JL-SI	EP	0:	CT-DI	EC
	day	nit	dŁn	day	nit	din	day	nit	dtn	day	nit	d&n	day	nit	d&p
Percent occurrence	1	9	1	1	- 0	<u></u>	2	b	1	8	0	9	1	9	1
AVG top ht Kft			2.3	ļ.		1.5			4.5	l		•	ł		.83
AVG Thickness Kft			.30	ļ .		.30			.12			.20			.58
AVG trap freq GHz			1.2			.74			3.1			.82			.15
AVG lyr grd -N/Kft			81	1		62			77	l		*			103
AVG lyr base Kft			3.4			1.3			4.4	<u> </u>		7.1			.61

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURR	ENCE 1	'EARL'	Y	J	AM-HI	RR	A	PR-JI	UH	31	UL-SE	P	-0	CT-D!	EC
	day	nit	dŧn	day	nit	d&n	day	nit	dan	day	nit	din	day	nit	dŧn
0 to 10 Fe	et 22	23	23	23	19	21	25	31	28	15	22	19	23	21	22
13 to 20 Fe	et 36	32	31	28	26	23	35	37	36	36	33	34	28	31	29
28 to 30 Fe	et 22	24	23	21	25	23	21	28	_ 21	26	27	26	21	23	22
30 to 40 Fe	et 1-	13	13	16	17	17	12	7	10	15	12	13	14	14	14
40 to 50 Fe	et 3	3	3	4	6	5	2	2	2	3	1	2	4	4	4
50 to 60 Fe	et i	1_1	2	4	1	_3	2	1	1	1	. 0	1	1	1	. 1
60 to 70 Fe	et !	1		ī	1	1	0	0	0	0	9	- 0	1	1	1
70 to 80 Fe	et 1	1	3	2	1	:	9	8	8	8	1	8	Ð	6	9
80 to 90 Fe	<u>et 1</u>	. 0	0	1	0	1	1	9	. 8	1	0	9	1	8	9
90 to 100 Fe	et 1	. 0	9	1	- 0	1	9	8	9	1	6	0	0	0	0
above 100 Fe	et 4	3	4	5	3	4	2	1	2	2	4	3	7	4	5
Kean height F	eet 28	24	26	35	_27	30	22	17	20	25	24	24	31	27	29

PARAMETER	Y	ARL'	Y	7	an-H	RR	A)	R-J	HU	J	JL-SI	EP	01	CT-DI	EC
	day	nit	dan	day	nit	d&n	day	nit	₫₽n	day	nit	dŧn	day	nit	den
% occur EL&SB dcts	_		8			Ģ			0	i -		9			Ü
% occur 2+ EL dcts	ı		9			9			8	l		3	l		0
AVG station H	1		305			305	i		395	1		305	ı		305
AVG station -N/Kft	i		11			12	ł		11	•		12	i		12
AVG sfc wind Kts	18	17	18	17	16	17	18	17	18	18	18	18	19	_18	19

IREPS REV 2.1 HISTORICAL PROFAGATION CONDITIONS SUMMARY

Specified location: 66 40 S 140 01 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source: 95502 66 40 S 140 01 E Radiosonde station height: 144 Feet

Surface obs source: MS430 35 80 S 135 08 E

DEPCENT OCCUPATION OF FUNDAMENT SUPPRICE-TO-SUBERCE PRINCESSON COMPONIES

ERCENT OCCURRENCE	<u> </u>	anni	CED	JUKE	NCE-	10-3	OKPR	UE N	nunr.	C 311	<u>, 6011</u>	VUII	363.		
FREQUENCY	Y	ERRL	Υ	L	RH-HI	Ar.	A	PR-J	UH	7	UL-Si	EP T	ō	CT-D	EC
	day	nit	d£n	day	nit	den	day	nit	dan	day	nıt	den	day	niz	dan
106 MHz	1 *	*	*		*	*	*	*	*	*	*	*	*	*	-
1 GHz	*	•	*		•	-		*	*	*	*	*	*	*	*
3 GHz	+						. *	*		.*	#	*	*	. *	*
6 GHz		*	•	*	+	*	*	*	*	+	*	*	*	*	-
10 GHz		#	*	*	*	4	*	*	*	#	*	+	4	*	*
28 GHz		•			*						*	*		*	+

SURFACE BASED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	J	กห-หก	R	AP	R-JI	JH .	31	JL-SI	ΕP	0	T-DI	EC T
1	day	nit	dŁn	day	nit	_d&n	day	nıt	dån	day	nit	d&n	day	nit	din
Percent occurrence	0	8	9	0	- 0	8	9	9	0	6	Θ	0	e	0	Ø
AVG thickness Kft				l		*	l		*	ł		*			*
AVG trap freq GHz			•	ĺ		*	•		*			*	[*
AVG lyr grd -N/Kft			*	Ĺ		*			*	L		•	<u> </u>		*

ELEVATED DUCT SUMMARY:

PARAMETER PARAMETER	_	EARL			AN-K	~~		30	1114					B	
1			-				•	PR-J		-	いしーら			CT-D	
	day	nit	dån	day	nit	d&n	day	nis	d&n	day	nit	dan	day	nit	dtn
Percent occurrence	0	0	- 0	0	_ 0	8	- 6	- 0	9	8	0	- Θ	9	0	9
AVG top ht Kft				1		4	ļ		*	1		*	l		•
AVG thickness Kft				l		•	I		*	i		_ *			
AVG trap freq GHz			•			*			*			-			*
RVG lyr grd -N/Kft			•			•	ł		*	į .		*	l		+
AVG lyr base Kft			+	l			1			i		•	į		*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERC	EHT	OCC	URRENCE	Ϋ́	ARL	Y	7	ลห-หล	R	A	PR-J	JN	J,	JL-SI	EP	0,	T-DE	C
				day	nit	d£n	day	nit	din	day	nit	d&n	day	n1t	d£n	day	การ	dtn
8	to	10	Feet	6	7	7	5	6	6	6	7	- 6	-6	7	- 6	7	14	9
10	to	28	Feet	7	11	9	5	11	8	8	10	9	3	11	9	8	13	11
20	10	30	Feet	14	19	17	10	15	13	15	19	17	17	22	19	14	21	_13
30	to	48	Feet	17	23	28	13	21	17	17	22	28	22	25	23	17	24	21
40	to	50	Feel	18	17	17	16	19	17	19	18	19	21	19	20	15	13	14
59	10	60	Feet	12	10	11	13	11	12	15		13	12	10	11	10	_ &	9
60	to	78	Feet	6	4	5	9	7	8	6		6	3	3	4	6	3	
78	to	88	Feet	4	2	3	5	3	4	3	2	3	3	1	2	3	1	2
89	to	90	Feet	2	_1	1	3	1	3	2	1_	1	2	1	_ i	2	1	
98	to	100	Feet	1	0	1	2	1	1	1	- 6	1	1	8	1	2	8	1
abo	ove	100	Feet	12	4	8	21	6	13	7	4	5	5	3	4	16	4	16
Hear	n h	e i gh	t Feet	56	40	48	71	44	58	48	42	45	45	37	41	60	38	49

PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
		day nit din	day nit d&n	day nit dan	day nit din
% occur ELESB dcts	8	8	0	9	0
% occur 2+ EL dcts	8	8	8	8	8
RVG station N	301	296	394	302	388
AVG station -H/Kft	10	9.1	10	11	16
RVG sfc wind Kts	15 14 14	13 12 13	15 14 15	17 16 17	14 13 13

49 Feet

Radiosonde station height: Surface obs source: MS432 35 00 S 115 00 E

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESH/COM RANGES:

PERCEN' (JUUURRENCE !	Ur E	BUUD	LED :	JURFI	4CE-	10-5	UKFN		DUILE.	E 311			<u> </u>		
FREC	DUENCY	Ÿ	EARL'	Y	Ji	AN-M	AR	i Al	PŘ-JI	UN	31	JL-SI	EP	00	CT-DI	EC
i		day	ភាវ	ರಸ್ತಿಂ	day	nit	d&n	day	nit	d&n	day	nit	dån	day	nit	d&n
100	HHz	0	8	8	0	Ð	9	*	*	*	0	0	9	8	0	9
1	GH2	14	5	16	18	8	13	*	#	*	9	3	6	16	5	11
3	GHz	21	8	15	27	12	19	*	*	#	14	_ 5	9	22	8	15
6	GHz	55	40	47	68	45	53	*	*	*	49	37	43	55	37	46
10	GHz	85	79	82	86	89	83	*	*	*	85	86	83	84	77	81
28	GHz	93	91	92	93	91	92	#	*	¥	94	92	93	93	91	92

(*) INDICATES INSUFFICIENT DATA

SURFACE BASED DUCT SUHHARY:

PARAMETER	Y	ERRL'	Y	31	H-H	AR	คเ	PR-J	UH	31	JL-S	EP	GI	CT-D	EC
	day	nit	d&n	day	nit	dån	day	nit	dkn	day	nit	din	day	กเเ	dån
Percent occurrence	1	1	1	0	2	i	9	8	9	2		1	3	1	2
AYG thickness Kft			. 14	ł		.19	i		*			.08	l		.16
AVG trap freq GHz			3.1	1		1.9	}		*			4.5	l		2.7
RYG lyr grd -N/Kft			83			98	Ĺ		*			62			97

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	Y	Ji	H-HA	AR	AI	PR-JI	ЯL	JI	JL-SI	EP	G	CT-DI	EC
	day	nit	d&n	day	การ	d&n	day	กเร	dån	day	nıt	d&n	day	nit	d&n
Percent occurrence	1	1	1	9	2	1	1	0	1	1	8	1	0	1	1
AVG top ht Kft			3.4	l		3.8	Ì		2.8			3.7	t		*
AVG thickness Kft			. 14		_	.22	L		.88			.09			. 15
AVG trap freq GHz			2.6			1.1			3.4			5.1			1.6
AVG lyr grd -N/Kft			66			69	l		62			66			*
AVG lyr base Kft			2.9	i		3.6	ł		2.8			3.6	I		1.0

EVAPOPATION DUCT HISTOGRAM IN PERCENT OCCURRENCE: -

PERCENT OCCURRENC	E Y	EARL	Y	3	RH-H	RR	AI	R-J	JH	J	ひしーち!	EP	. 00	3 1- 75	EC
	day	nıt	dan	day	nit	dan	day	nıt	d&n	day	nít	d&n	day	nıt	dta
0 to 10 Feet	3	3	3	4	4	4	2	3	3	2	2	2	4	3	3
10 to 20 Feet	3	5	4	4	5	4	3	4	4	3	5	4	3	6	5
20 to 30 Feet	8	12	10	7	11	9	7	_10	8	9	12	10	9	14	11
30 to 40 Feet	13	17	15	10	15	13	12	15	13	16	18	17	13	21	17
40 to 50 Feet	18	21	20	15	20	18	18	20	13	21	25	23	18	20	19
50 to 68 Feet	17	18	18	14	17	15	19	19	19	18	28	19	:7	18	17
60 to 70 Feet	, 11	10	11	12	11	11	13	12	13	11	8	10	9	8	9
70 to 80 Feet	7	5	6	8	5	7	8	6	?	i 7	4	3	6	4	5
88 to 98 Feet	4	2	3	∫ €	2	4	<u> </u>		4	2	<u>i</u>	2	4	1	3
98 to 180 Feet	2	1	2	3	1	2	2	2	2	2	1	1	2	i	1
above 100 Feet	13	5	9	18	7	13	10	6	8	8	3	6	16	5	16
Hean height Feet	65	51	58	72	54	63	63	54	59	57	48	53	67	48	57

PARAMETER	YE	ARL'	4	JF	3H-KI	4R	AP	R-JI	JH	JU	L-SI	EP	01	CT-DI	EC
	day	nit.	d&n	day	ni*	d&n	day	nit	dŁn	day	nit	din	day	nit	đŧn
% occur EL&SB dcts			8			Ø			8			9			0
% occur 2+ EL dcts			8			0	İ		0			0			9
AVG station N			392			300			384	1		384	ŀ		308
AVG station -H/Kft			11			11			12			11			11
AVG sfc wind Kts	16	15	15	15	15	15	16	15	16	17	15	16	15	14	14

HISTORICAL PROPAGATION CONDITIONS SUMMARY IREPS REV 2.1

Specified location: Radiosonde source : 89592 66 33 S 93 01 E

66 33 S 93 01 E

Radiosonde station height: 98 Feet

Surface obs source: MS432 35 88 S 115 88 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM:COM RANGES:

FREQUENCY	YI	EARL'	Ÿ	J	AN-M	AR	A	PR-J	אט	Ji	JL-SI	EΡ	00	T-DI	EC -
	day	n <u>i</u> t	d&n	day	nit	d&n	day	nit	d&n	day	nit	dtn	day	nit	d&n
100 MHz	0	8	0	*	*	*	*	*	*	*	*	*	0	0	8
1 GHz	16	5	18		*	#	*	*	*	+	*	*	16	5	10
3 GHz	21	8	14	*	*	*			•		*	*	21	_ 8	_ 1 1
6 GHz	54	37	45		*	*	*	ě	*	*	*	*	54	37	45
10 GHz	84	78	81		*	*	*	*	*	×	*	*	84	78	81
20 GH=	93	91	92	٠.	*	*		*	*			5	93	91	92

(*) INDICATES INSUFFICIENT DATA

CUPEACE BACED BUILT CHMMADY.

SOKERCE BUSED FOCE	SUMMER I											_		
PARAMETER	YEARLY		JI	an-M	₹R	R	R-J	JN	7	JL-SE	P	Ō	T-D	EC
	day nit	dŁn	day	nıt	d&n	day	nit	d&n	day	nit	dtn	day	nit	dīn
Percent occurrence	8 9	0	8	0	0	0	-6	- 6	- 6	_0	0	8	1	1
AVG thickness Kft		. 15			*	l		-			*			. 15
AVG trap freq GHz	i	1.7	1		*			÷	1		*	l		1.7
AVG lyr grd -H/Kft		78			*			*	Ĺ		*			70

ELEVATER BUCT SUMMARY.

ELEANIER DOCT SOURI	41.													
PARAMETER	YERRL	-		AH-MA			PR-J			JL-SI			CT-DI	
L	day nit	d&n	day	nit	dan	day	nit	d&n	day	nit	dŁn	day	nit	dtn
Percent occurrence	1 6	1	1	8	1	0	1	1	0	0	0	2	0	1
AVG top ht Kft	J	3.6	1		3.5	J		3.9	ĺ		#]		3.3
AVG thickness Kft		.12	<u>L</u>		.08	<u> </u>		.10			*	L		.17
AVG trap freq GHz		2.3			3.2	_		2.1			*			1.6
AVG lyr grd -N/Kft	l	74	1		66	Į .		90			*	l		65
AVG lyr base Kft	<u> </u>	3.5	<u> </u>		3.4			3.9	L			L		3.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCURRENCE	Ϋ́	ARL	?	J	AN-MI	R	fil	PR-JI	JH	31	UL-SI	ΕP	Ô	T-DE	C
		day	nit.	dån	day	nit	den	day	nit	dan	day	nit	dên	day	nit	dan
9 to	10 Feet	3	3	3	4	4	4	2	-3	2	2	2	2	4	3	3
10 to	20 Feet	3	5	4	4	5	4	3	4	4	3	5	4	3	6	5
20 to	38 Feet	8	12	10	_ 7	_11	9	_ 7	18	_ 8	ہِ ا	12	10	9	14	. 1 i_
30 10	40 Feet	13	17	15	19	15	13	12	15	13	16	18	17	13	21	17
40 to	50 Seet	18	21	26	15	20	18	18	20	19	21	25	23	18	20	19
56 to	60 Feet	17	18	18	14	17	i5	19	19	19	18	28	19	17	18	17
60 to	70 Feet	11	10	11	12	11	11	13	12	13	11	\$	10	9	8	- 9
78 to	80 Feet	7	5	6	8	6	7	8	6	7	7	4	5	6	4	5
_ 80 to	90 Feet	4	2	3	_ 6	_ 2	4	5	3	_ 4	3	1	. 2	4	1	3
98 12	188 Feet	2	1	2	3		2	2	2	2	2	1	1	2	1	1
aboue	198 Feet	13	5	9	18	7	13	10	6	8	8	3	6	16	5	10
Mean he	ight Feet	65	5:	58	72	54	63	63	54	59	57	48	53	67	48	57

PARAMETER	YEAR	LY	JF	H-HF	ìR	AP	R-JI	JH	JL	L-SE	P	00	7-Di	ĒČ
	day ni	t din	day	216	din	day	nit	dan	day	nit	dEn	day	nit	dtn
% occur EL&SB dcts		8	j		8			0			0			- 0
% occur 2+ EL dcts		9	1		8			0			0	ŀ		0
AVG station N		302	i		301			364			303			301
AVG station -N/Kft		11	1		11	}		11			11	l		11
AVG sfc wind Kts	16 1	5 15	15	15	15	16	15	16	17	15	16	15	14	14

Specified location:

68 34 S 77 58 E 68 34 S 77 58 E (*) INDICATES INSUFFICIENT DATA

Radiosonde source : 89571 Radiosonde Station height: 39 Feet

Surface obs source: MS432 35 00 S 115 00 E

DEDICAT OCCUPDENCE OF ENHANCED SUBGOCE_TO_SUBGOCE DATABLESM.COM DANCES.

LLOKKEHLE (JF _ E	NHAM	FED :	OURF	nce-	10-30	UKFRI	, E K	TUNK.	<u> E311</u>	CON	KINN	<u> </u>		
UENCY	Y	EARL	Υ -	J	AH-HI	R.	AF	R-JI	JH	- 31	JL-SI	EP	0	CT-DI	EC
	day	nıt	d&n	day	nit	d&n	day	ni t	den	day	nit	d&n	day	nit	den
MHz	*	*	¥	*	¥	¥	*	*	*	*	ŧ	*	Ŧ	÷	*
GHz	*	*	¥	*	#	*	*	*	¥	#	*	*	*	¥	*
GHz	*	*	:		*	*	#_	*	÷	#	*	*	*	*	*
GHz	¥	*	¥	Ŧ	*	*	*	*	*	#	*	*	*	¥	*
GHz	*	¥	¥	¥	*	¥	*	¥	*	¥	*	*	+	*	*
GHz	*	*	*	_ ¥	÷	*	*	*	+	÷	*	*	*	*	*
	MHZ GHZ GHZ GHZ GHZ GHZ GHZ	UENCY YI day MHz * GHz * GHz * GHz # GHz # GHz # GHz #	UENCY YEARL* day nit * MHz * * GHz * * GHz * * GHz * * GHz * *	UENCY YEARLY day nit d&n MHz * * * GHz * * * GHz * * * GHz * * * GHz * * * GHz * * *	UENCY YEARLY J day nit d&n day day MHZ * * * * * GHZ * * * * * GHZ * * * * * * GHZ * * * * * * GHZ * * * * * *	UENCY YEARLY JAN-MI day nit d&n day nit MHZ * * * * * GHZ * * * * * * GHZ * * * * * * GHZ * * * * * * * GHZ * * * * * * * GHZ * * * * * * *	UENCY YEARLY day nit d&n JAN-MAR MHZ * * * * * * * GHZ * * * * * * * GHZ * * * * * * * GHZ * * * * * * * GHZ * * * * * * * * GHZ * * * * * * * * * GHZ * * * * * * * * * *	UENCY YEARLY JAN-MAR AF day nit dan day nit dan day AF	UENCY YEARLY day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit dan day nit d	UENCY YEARLY day nit dan day nit d	UENCY YEARLY JAN-MAR APR-JUN JI day nit d&n day nit d&n day ABR-JUN JI MHZ * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *	UENCY YEARLY JAN-MAR APR-JUN JUL-SI day nit d&n day nit d&n day nit d&n day nit d&n day nit day nit d&n day nit d&n day nit MHZ * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *	UENCY YEARLY JAN-MAR APR-JUN JUL-SEP day nit d&n day nit d&n day nit d&n day nit d&n MHZ * * * * * * * * * * * * * * * * * * *	UENCY YEARLY JAN-MAR APR-JUN JUL-SEP O day nit d&n day	UENCY YEARLY JAN-MAR APR-JUN JUL-SEP OCT-D day nit d&n day

SUPPACE RASED DUCT SUMMARY:

PARAMETER	YI	ARL	7	Ji	H-K	AR	A	R-JI	JN	Ji	jL-SI	EP	90	T-D	EC
L	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	dan	day	nit	d&n
Percent occurrence	0	- 0	8	0	- 0	0	0	0	Ø	0	0	0	0	8	9
AYG thickness Kft			*	ł		¥	l		*	i		*	İ		*
AVG trap freq GHz			*	i .		#	ļ		*	l		*			*
AVG lyr grd -N/Kft			*			*			±	<u> </u>		*			*

ELEVATED DUCT SUMMARY:

PARAHETER	Y	EARL'	Y	-31	คพ-พ	R.	fil.	PR-JI	UH	J	UL-SI	EP	01	CT-D	EC
	day	nit	d&n	day	nit	d&n	day	nit	dan	day	ពារ	dan	day	nıt	dan
Percent occurrence	0	1	0	1	2	2	8	0	9	Ø	0	9	8	8	8
AVG top ht Kft	ļ		*	ł		*			*			*	1		*
AVG thickness Kft			.10	1		. 10	J		*			*	}		*
AVG trap freq GHz			3.8			3.8			*			*			*
AVG lyr grd -N/Kft			*	ł		*	l		*	l		*	l		*
AVG lyr base Kft			4.6			4.6	l		*	1		+	i		*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCCI	JRRENCE	Y	ARL	Ÿ	J	ลห-หล	AR	A:	PR-JI	JN	J	JL-S	EΡ	00	T-D	EC
			day	nit	d&n	day	nit	dŁn	day	nıt	d&n	day	nit	d&n	day	nit	dan
0 to	10	Feet	3	3	3	4	4	4	2	3	5	2		2	4	3	3
10 to	20	Feet	3	5	4	4	5	4	3	4	4	3	5	4	3	6	5
26 to	30_	Feet	8	12	_10	_ 7	_ 11	9	7	10	8	9	12	10	9	14	11
30 to	40	Feet	13	17	15	10	15	13	12	15	13	16	18	17	13	21	17
48 10	50	Feet	18	21	20	15	20	18	18	20	19	21	25	23	18	28	19
58 10	60_	Feet	17	18	18	_14	17	15	_19	19	19	18	28	19	17	18	17
69 to	78	Feet	11	10	11	12	11	11	13	12	13	11	8	10	9	8	_ - -
70 to	88	Feet	7	5	6	8	6	7	8	6	7	7	4	5	6	4	5
88 to	98	Feet	4	2	3	6	_ 2	4	5	3	4	. 3	_1	. 2	4	1	3
90 to	199	Feet	2	1	2	3	1	2	2	2	2	2	1	1	2	1	1
above	100	Feet	13	5	9	18	7	13	10	6	8	8	3	6	16	5	10
Hean he	1 gh1	Feet	65	51	58	72	54	63	63	54	59	57	49	_ 53	67	48	57

YE	ARLY	<i>r</i> ,	Jf	M-H	AR	RF	-R-JI	3H _	J	JL-Si	EP	00	T-DI	EC
day	nst	d&n	day	nit	d&n	day	nit	d&n	day	การ	dån	day	nit	d&n
		0			0			8			- 0			8
[0	Ī		8	[0	i		0	į .		છ
1		276			198	ľ		303	l		305	l		299
1		10			6.7			11			11	l		10
16	15	15	_15	15	15	16	15	16	17	15	16	15	14	14
		day nit	9 9 276	day nit dan day 0 0 276	day nit dan day nit 0 0 276	day nit dtn day nit dtn 0 0 0 0 276 198	day nit dtn day nit dtn day	day nit dtn day nit dtn day nit 0 0 0 0 0 276 198	day nit dên day nit dên day nit dên 0	day nit dtn day nit dtn day nit dtn day 0	day nit dtn day nit dtn day nit dtn day nit 0 0 0 0 0 0 0 0 276 198 303	day nit dên day nit dên day nit dên day nit dên 0	day nit dên day nit dên day nit dên day day nit dên day nit dên day 0<	day nit dan day nit day nit

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 67 36 S 62 52 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 94986 67 36 S 62 52 E Radiosonde station height: 49 Feet

Surface obs source: MS440 35 00 S 35 00 E

PERCENT	DECORRENCE	UF E	инни	ren:	SURF	HLE-	10-51	UKFH	LE K	HDHK.	<u> 1250</u>	/COM	KHHI	<u>.E5:</u>		
FRE	QUENCY	Y	ERRL	Υ —	7	<u>н-и</u>	AR _	Ä	PR-J	UH	J	UL-SI	EP -	00	CT-DS	EC
l		day	nit	d&n	day	nit	dan	day	nit	d&n	day	ni:	dan	day	nit	dan
188	HHz	- 0	0	- 8	*		*	*	¥	*	¥	*	Ť	0	- 0	- 6
1	GHz	28	5	13		*	¥	*	*	#	*	*	*	20	5	13
3	GHz	30	19	28		*	*	.*	*	*	*	*	*	30	19	20
6	GHz	60	43	52	T#	*	*	*	*	*	*	*	*	60	43	52
10	GHz	81	74	77	*	Ŧ	*	*	*	*	¥	*	4	81	74	77
l วด	GH7	89	85	87	l =			i *	*	*		*	*	29	85	87

SURFACE BASED DUCT SUMMARY: PARAMETER YEARLY JAN-MAR APR-JUN JUL-SEP OCT-DEC day nit dan day nit dan day nit den day nit den day nit den Percent occurrence ā Ø AVG tnickness Kft .12 . 12 AVG trap freq GHz 5.2 5.2 RVG lyr grd -N/Kft ÷

ELEVATED DUCT SUMMARY: PARAMETER YEARLY JAN-KAR APR-JUH JUL-SEP OCT-DEC day nit dan day nit den day nit daniday nit dan day nit dan Percent occurrence RYG top ht Kft AVG thickness Kft . 08 AYG trap freq GHz 3.1 1.9 AVG lyr grd -N/Kft ¥ AVG lur base Kft

EVAPORATION BUCT HISTOGRAM IN PERCENT OCCURRENCE: PERCENT OCCURRENCE YERRLY JAN-MAR APP-JUN Jul -SEP day nit dan day nit dan day nit dan day nit dan day nit dan 0 to 10 Feet 10 to 20 Feet 20 to 30 Feet 38 to 40 Feet 40 to 50 Feet 50 to 60 Feet 60 to 70 Feet 70 to 80 Feet 80 to 98 Feet 98 to 188 Feet above 100 Feet Mean height Feet

GENERAL METEOROLOGY SUMMARY: PARAMETER YEARLY JAN-MAR APR-JUN JUL-SEP OCT-DEC day not daniday not dan day nit daniday nit dan day nit dan % occur EL&SB dcts P. £ % occur 2+ EL dcts AVG station N AVG station -N/Kft AVG sfc uind Kts 1€

67 48 S (*) INDICATES INSUFFICIENT DATA 45 51 E Specified location:

67 49 S Radiosonde source : 89542 45 51 E

131 Feet Radiosonde station height:

Surface obs source: MS440 35 00 S 35 00 E

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FERCENT OCCORRENCE			CLD,												
FREQUENCY	Y	EARL'	Y	J	AN-M	AR	l Ai	PR-JI	บห	J(UL-SI	EΡ	0	CT-DI	EC
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	dan	day	nit	d&n
100 liHz	*	*	Ŧ	*	¥	*	*	*	*	*	*	*	*	*	*
1 GHz	*	¥	*	+	*	¥	*	*	*	*	*	¥		*	*
3 GHz	*	*	¥	*	ŧ	¥	_*	*	*	! *	¥	*	*	*	*
6 GHz	T *	+	*	¥	*	*	*	*	*	*	¥	Ŧ	*	*	+
10 GHz	*	#	*	*	*	¥	*	*	ž	*	*	*	¥	*	*
20 GHz	+	*	*	#		*	+	*	*	*	*	*	*	#	*

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SUPPOSE RASED DUCT SUMMARY:

SOMEHITE RHRED DOCK	SURRI	HKI:								_					
PARAMETER	YI	EARL'	Υ	J	AN-M	AR	AI	R-J	UN	j	UL-Si	EP	0	CT-D	EC
	day	mit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	9	- 0	9	9	9		Ø	9	0	0	. 0	0	0	0	0
AVG thickness Kft	i		*			¥			*			*			*
AVG trap freq GHz	!		*			*			*			+	ı		*
AVG lyr grd -N/Kft			*	l		ź	<u> </u>		*			*	i		*

PARAMETER	Y	ARL'	Y	J	AH-M	AR.	A	PR-J	UH	J	UL-S	EP	O.	CT-Di	C
	day	nit	dan	day	nit	d&n	day	กเร	ರ &ಗ	day	nit	d&n	day	r.1 t	d&
Percent occurrence	1	1	1	1	1	1	9	0	9	2	1	5	1	0	1
AVG top ht Kft			2.5	Į		3.1	l .		¥	ł		2.9	i		1.4
AVG thickness Kft			.20	L_		.32	L.		*	1		. 14	l		.12
AVG trap freq GHz			2.3			.36			*			1.6			5.0
AVG lyr grd -N/Kft			76	ļ		100	ļ		*	ŀ		79	1		58
AVG lyr base Kft			2.4	l		2.9	1		*	ļ		2.8	ļ		1.3

EVADADATION THAT MICTORDAY IN DEDCENT OCCUPATIONS

EAHLORHIION DOCI HI	<u>5 1 0 6 1</u>	י תחץ	IK P	CRUE	14 I U	LLUKI	FENU	: ·							
PERCENT OCCURRENCE	YI	EARL	Υ	J	AN-H	AR .	A	-8-JI	JH	Jt	JL-SI	P	õ	T-DE	ΕC
	day	nit	dan	day	nit	d&n	day	nıt	d&n	day	211	d&n	day	nıt	den
0 to 10 Feet	5	- 5	5	5	6	- 5	3	2	3	4	4	4	7	7	7
10 to 20 Feet	4	6	5	3	5	4	2	4	3	4	6	5	5	8	6
20 to 30 Feet	7	18	. 8	_6	8	7	_ 6	8	7	8	11	10	8	12	18
30 to 40 Feet	9	13	11	8	12	10	9	12	10	11	15	13	9	15	12
40 to 50 Feet	13	17	15	11	16	14	14	17	16	16	19	17	12	16	14
50 to 60 Feet	14	16	15	13	16	14	15	18	16	15	16	16	12	14	_13
60 to 70 Feet	12	13	12	11	14	12	14	14	14	12	11	12	10	12	11
70 to 80 Feet	9	8	8	9	7	8	18	9	18	8	7	8	8	7	7
80 to 90 Feet	6	4	5	_ 7	4	6	6	5	5	_5		4	6	3	_ 4
90 to 100 Feet	4	2	3	4	3	3	5	3	4	3	2	2	4	5	3
above 100 Feet	18	7	12	22	9	16	17	8	12	12	5	9	19	5	12
Mean height Feet	71	54	62	77	57	67	72	58	65	63	51	57	71	59	60

PARAMETER	Y	RRL'	Ÿ	3	M-HA	AR.	AF	P-J	אט	J	JL-SI	EP	OC.	T-DE	:C
	day	nit	đěn	day	nit	dŧn	day	nit	d&n	day	nit	d&n	day_	nit	d&n
% occur EL&SB dcts			8			9			0			Θ			Ü
% occur 2+ EL dcts	ŀ		0			9			0			8	l		0
AVG station N			302			300			384	l		366			299
RYG station -N/Kft	ĺ		11	1		11			11	l		12	ļ.		11
RVG sfc wind Kts	16	15	15	15	14	14	_16	15	15	17	16	16	16	15	16

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 69 00 S 39 34 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 89532 69 00 S 39 34 E

Radiosonde station height: 59 Feet

Surface obs source: MS440 35 00 S 35 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-IO-SURFACE RADAR/ESM/COM PANCES:

PERL	111	UCCURRENCE	UF E	MARIN	CEU:	SUKE	nce-	10-3	UKPRI	LE R	- אמעה	E 211	LUN	KHIN			
	Fke	QUENCY	Y	EARL	γ	J	AH-M	AR	aı	PR-JI	ÜN -	Ji	JL-S	P	00	CT-DE	ĒC
1			day	nit	d&n	day	nit	dan	day	nit	d&n	day	nit	dan	day	nıt	dån
	100	MHZ	8	8	8		*	*	*	*	ŧ	0	0	0	0	0	0
1	1	GHz	16	6	11	÷	*	*	¥	*	+	12	6	9	19	6	13
1	3	GHz	24	11	18	*	£	*	*	*	*	19	12	16	29	11	20
	- 6	GHz	58	45	- 51	Ŧ	*	*	*	Ť	*	56	45	51	59	44	52
1	10	GHZ	82	77	79	*	*	¥		*	÷	83	79	81	ខែរ	74	77
i	20	GHz	90	88	89	F	¥	ž	*	*	¥	91	91	91	88	85	87

CUREACE BASED BUCT SUMMARY.

SURFACE BASED BUCI	<u> 50000</u>	HKT													
PARAMETER	Y	EARL	?	J	AH-M	ละ	H	PR-J	אנ	Ji	UL-SI	EΡ	90	CT-D	EC
	<u>iday</u>	nit	d&r.	day	nit	d&n	day	nıt	d&n	day	nit	dan	day	nit	ರಕ್ ಣ
Percent occurrence	G	1	9	8	0	0	ð	9	. 0	0	1	1	E	1	<u>1</u>
AVG thickness Kft	}		.22]		*	j		£	1		.26	ļ		.19
AVG trap freq GHz	1		1.0	1		+	l		*	l		.82	l		1.1
AVG lyr grd -N/Kft	<u> </u>		126			*	Ĺ _		+		_	110	l _		142

ELEVATED DUCT SUMMARY:

CELTITIED DOG: COMMI															
PARAMETER	78	EARL'	Y	- 31	an-m	R	- AI	₹-JI	JH	Jt	JL-SI	P	01	T-D	EC
İ	day	nit	d&n	day	nit	d&n	day	nit	dŁn	day	nıt	din	day	nit	dan
Percent occurrence	0	1	1	Ø	-5	3	0	8	8	Ð	<u>e</u>	9	8	6	0
AVG top ht Kft	ſ		8.5	i		8.5	[*	[*	[*
AVG thickness Kft	i		- 18	<u> </u>		.18	j		*			*	Ĺ		•
AVG trap freq GHz			1.1	F		1.1			*						÷
RVG lyr grd -N/Kft	ĺ		78			78	ĺ		*			*	ļ		*
AVG lyr base Kft	i		8.4	L		8.4	L		*	ļ		*	Ĺ	_	_ *

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCC	URRENCE	YE	ARL'	ť -	J	AN-M	R	- AI	R-J	JN	JI	11-51	EP	9:	T-DE	
		day	តារេ	d&n	day	nit	din	day	nit	d&n	day	nit	din	day	nit	dan
8 to 10	Feet	5	5	5	5	6	5	3	2	3	4	-4	4	7	7	7
18 to 28	Feet	4	6	5	3	5	4	2	4	3	4	6	5	5	8	é
20 to 30	Feet	7	_10	8	_6		_ 7	6	_8_	7	8	11	10	8	12	16
30 to 48	Feel	9	13	11	8	12	16	9	12	10	11	15	13	9	15	12
40 to 58	Feet	13	17	15	11	16	14	14	17	16	16	:9	17	12	16	1 -
50 to 60	Feet	14	16	15	13	16	14	15	18	16	15	16	16	12	14	. 13
60 to 78	Fegt	12	13	12	11	14	12	14	14	14	12	11	. 2	19	12	11
70 to 88	Feet	9	8	8	9	7	3	10	9	ទេ	8	7	8	8	7	7
80 to 90	Feet	6	4	_ 5	7	4	. 6	6	. 5	. 5	ঠ	4	4	. 6	3	4
98 to 188	Feet	4	2	3	4	3	3	5	3	4	3	2	2	4	2	;
above 100	Feet	18	7	12	22	9	16	17	8	12	12	5	9	19	5	12
Sean heigh	t Feet	71	54	62	77	57	67	72	58	65	63	51	57	71	28	69

GENERAL METEGROLOGY SUNHARY:

PARANETER	YE	ARL	7	JF	iH-Hi	1R	RF	R-J	JK .	Jı	IL-Si	ĒΡ	0:	CT-D	EC
i	day	nit	din	day	กาง	18n	day	nit	den	day	nit	din	Sav	กาเ	dan
% occur EL&SB dcts			9			9			0			8			0
% occur 2+ EL dets			9	ŀ		8			9			9			0
AVG station N			363	l		302			382			307			381
AVG station -N/Kft	İ		11	l		11			11			11			11
HVG sfc yind Kts	16	15	15	15	14	14	16	15	15	17	16	16	16	15	15

Specified location:

70 19 S 2 22 H : 89001 70 19 S 2 22 H (*) INDICATES INSUFFICIENT DATA

るので

Radiosonde source: 89901 70 19 S Radiosonde station height: 171 Feet

Surface obs source: MS486 55 00 S 65 20 H

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE PADAP/ESM/COM PANGES:

		000011110E		*******	<u> </u>	•	****		****								
Г	FRE	QUENCY	Y	EARL	Y	J	RN-M	RR	A:	PR-J	UN	Ji	JL-S	E >	00	CT-D	EC
			day	nıt	dŁn	day	nit	d&n	day	nit	dŧn	day	nit	d&n	day	·it	den
	100	MHz	*	*	*	*	£	÷	*	*	*	*	*	+	-	*	-
1	1	GHz	j *	÷	*	į *	¥	4		+	#	*	*	*	*	*	*
ì	3	GHz	*	*	*	*	+	*	¥	*	*	*		*		+	*
\vdash	6	GHz	T *	*	*		+	*	+	*	¥	+	ŧ	*	*	*	*
1	19	GHz	*	*	*	*	*	¥		+	*	*	*	÷	*	±	*
1	26	GHZ	l +	¥	#	i *	*	*		#	¥	. *	*	*	1 •	¥	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	78	ARL'	Y	J	H-HA	AR	A	PR-J	UN	J:	UL-S	EP	0	CT-D	EC
	day	nıt	dan	day	nit	d&n	day	nit	dån	day	nit	dan	day	nit	ರ೬೧
Percent occurrence	8	0	- 6	0	0	- 8	В	е	6	9	9	0	8	- 6	8
AYG thickness Kft			*	ı		*	ĺ		#			•	1		•
AYG trap freq GHz			+	ļ		#			#			*	!		4
AVG lyr grd -N/Kft			+			*			*			. \$.			*

ELEVATED DUCT SUMMARY:

PARAMETER		ARL'	,	11	AN-H	90	01	R-J	IN	11	JL-SI	- D	0	CT-D	<u> </u>
COKONE PER															dan
Percent occurrence	0	1	0	8	9	8	8	0	6	В	2	1	ē	1	1
AVG top ht Kft	!		3.7	İ		#			*			*	ĺ		3.7
AVG thickness Kft			.13			#			*	L		.19	<u> </u>		.08
AVG trap freq GHz			2.7	[*			ż			1.2			4.4
AVG lyr grd -N/Kft	İ		69	1		÷	}		•			*			68
RVG lur base Kft	Ĺ		5.8	<u> </u>		*			₹_			7.9	L		3.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCE	HT	OCC	PRENCE	YE	ARLY	7	J	RH-MI	Ř	Al	PR-J	JH	J	JL-SE	Ρ	06	פ-דכ	C
				day	nıt	dŧn	day	nit	din	day	nit	dan	day	nit	dtn	day	nit	din
8	to	10	Feet	23	26	24	23	23	23	23	26	24	20	25	23	27	28	27
16	to	20	Feet	27	38	28	21	25	23	31	34	33	29	35	32	25	26	25
28	t o	38	Feet	20	21	20	19	19	19	22	20	21	24	22	23	15	20	18
30	to	40	Feet	12	12	12	14	16	15	12	12	12	12	10	11	11	9	18
48 1	to	56	Feet	5	4	5	6	8	?	3	2	3	5	3	4	6	4	5
50 1	to	68	Feet	2	2	_2	3	3	3	2	2	2	1	1	1	_3	3	3
60 1	io	70	Feet	1	1	1	1	1	1	1	0	ī	1	0	1	1	1	$\overline{1}$
70 1	to	80	Feet	1	9	1	1	1	1	1	0	1	1	8	9	2	0	2
80 1	to	98	Feet	1	1	1	1	1	1_	8	. 1	1	1	1	1	1	_ 1	. :
98	to	:00	Feet	1	9	0	1	0	1	8	0	8	1	8	0	1	Θ	1
abo	ve	100	Feet	7	4	5	10	3	7	3	3	3	5	1	3	8	7	8
Hean	he	e i ght	Feet	31	25	28	37	28	32	25	23	24	29	21	25	34	29	32

PARAMETER	YE	ARL	Y	J	an-M	R.	AI	R-J	אט	Jt	JL-SI	EP	0.0	T-DE	ĒČ
	day	nit	din	day	nit	din	day	การ	dtn	day	nit	dta	day	nit	den
% occur ELESB dats			8			8			9	Γ		Ø			8
% occur 2+ EL dcts			9	l .		0			0	ļ		0	ĺ		8
AYG station H			388	1		305			368	•		312	l		305
RYG station -H/Kft			13	l		12			14			14	ł		12
AVE SEC WIND KES	16	16	16	15	15	15	17	16	16	18	17	17	16	15	16

EREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 77 51 S 166 40 E (*) INDICATES INSUFFICIENT DATA Radiosonde source: 89664 77 51 S 166 40 E

Radiosonde station height: 79 Feet

Surface obs source: MS487 55 00 S 75 00 H

DEPCENT OCCUPRENCE OF ENHANCED SUBFACE-TO-SUBFACE PADAD/ESM/COM PANCES

	PERCENI	USCURRENCE	UP E	MAAA	CED :	SURF	<u>nce-</u>	10-2	UKFR	LEK	HUHK.	C20	COU	KHNI	JE 3:		
	FRE	QUENCY	Y	ERRL	Ϋ́	J	ห <u>–หค</u>	AR	B1	PR-J	UN	JI	L-SI	EP	00	CT-DE	:c 7
			day	niţ	dan	day	nit	_d&n	day	ni t	d&n	day	nit	din	day	nit	d&n
	100	HHz	0	- 8	Ð	, .	*	*	*	*	*	- 6	- 8	0	0	- 0	8
- 1	1	GHz] 5	4	4		*	•	į *	*	*	3	4	3	7	4	6
	3	GHz	6	5	5	<u> </u>	ŧ		1 ±	*	*	4	4	4	_ 8	. 5	6
	5	GHz	3	7	7		*	*	¥	¥	*	6	5	6	11	- 8	9
	10	GHZ	j 26	22	24	j *	*	*	¥	*	*	23	18	29	28	26	27
	23	GHz	49	47	48		*	*	*	*	*	49	45	47	49	48	49

SUPERCE BASED DUCT SUBMARY:

JOIN NOC BRIDED DOCK					
PARAMETER	YEARLY	JAH-MAR	RFR-JUN	JUL-SEP	OCT-DEC
	day nit din	day nit dan	day nit din	day nit din	day nit dan
Percent occurrence	1 0 0	0 0 0	0 8 0	1 0 i	1 0 1
AVG thickness Kft	.10		*	.07	.13
AVG trap freq GHz	2.9		*	4.2	1.6
RVG lur grd -N/Kft	137	*	*	88	185

FLEVATED DUCT SUMMARY:

PARAMETER		ARL	,	77	AN-M	00	1 0	28-JI	IN	77	JL-SI	-6	- 04	CT-DI	-
FORDOETER			-												
	day	nit	d&n	day	nit	din	day	nit	d&n	day	nit	d&n	day	nit	dkn
Percent occurrence	1	1	ī	- 0	0	- 0	8	9	- 0	0	4	2	3	8	2
AVG top ht Kft			3.5				l		*	ĺ		3.2	•		3.7
AYG thickness Kft			.16	L		*	L		*	<u> </u>		.17	L		. 15
AVG trap freq GHz			4.1			+			*			5.1	-		3.2
AVG lyr grd -H/Kft			58			#			+			48	1		69
AVG lyr base Kft			3,3			*			*	Ĺ		3.0	<u>. </u>		3.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	OCC	URRENCE	YE	ARL	ř	J	AN-M	AR	Al	PR-JI	JN	30	JL-SE	P	00	T-DE	:(
			day	nit	dkn	day	nit	d&n	day	n:t	dŁn	day	nit	dan	day	nit	đin
8 10	10	Feet	22	23	53	23	19	21	25	31	28	15	22	19	23	21	22
10 to	26	Feet	30	32	31	28	26	23	35	37	36	36	33	34	28	31	29
28 to	38	Feet	22	24	_23	21	25	23	21	20	21	26	27	26	21	23	22
36 to	40	Feet	14	13	13	16	17	17	12	7	10	15	12	13	14	14	14
48 to	58	Feet	3	3	3	4	6	5	2	2	2	3	1	2	4	4	4
56_to	68_	Feet	2	1_	2	4	_1	3	1_2	1_	_ 1	1	9	1	1	1	1
60 to	70	Feet	1	1	1	1	1	1	0	0	0	0	8	8	1	1	1
78 to	80	Feet	1	1	1	2	1	1	9	8	8	9	1	Θ	8	9	θ
30 to	98	Feet		- 8	_ 8	1	8	_1	<u> 1</u>	0	0	1	_0	_ 0	. 1	8	0
98 to	100	Feet	1	8	0	1	9	1	0	9	0	1	G	0	6	0	9
above	186	Feet	4	3	4	5	3	4	2	1	2	2	4	3	7	4	5
Hean h	e i ghi	Feet	28	24	26	32	27	39	~2	17	20	25	24	24	31	27	29

PARAMETER	YE	arly	1	J	Asi-M	R	AF	`R−Jl	JH .	Jŧ	JL-SI	P	õ	T-D	EC
	day	nit	dŁn	day	กาะ	dŁn	day	nit	dŧn	day	nit	din	day	nit	din
% occur ELESB dets			8			9			8			9			0
% occur 2+ EL dcts			6	ì		8			8	i		0	!		9
RVG station N			386			302	į .		310	ĺ		311			299
RVG station -N/Kft			11			10	i		12	-		12			10
AVG sfc wind Kts	18	17	13	17	16	17	18	17	18	18	18	18	19	18	19

IREPS REV 2.1

Specified location:

81 36 N 16 42 W (+) INDICATES INSUFFICIENT DATA

Radiosonde source: 4310 81 36 N 16 42 N Radiosonde station height: 131 Feet Surface obs scurce: MS218 65 00 N 15 00 K

DEDCENT OCCUPACION OF ENHANCED CHARGOSTATACHDEGGE DANAD/ECH/COM DANGES

Ρ,	FKCFN1 (DUCTORKENCE	ש אט	NHHNI	LED :	ייאטכ	nce-	10-51	JFFE	-E K	יאחעי	ESH	, COU	KNN	<u> </u>		
Γ	FRE	QUENCY	Y	ERRL'	Y	J	AN-MI	₹R	AI	R-JU	JH	31	UL-SI	EP	0	T-DE	EC
1			day	nit	d&n	day	nit	dŁn	day	nit	den	day	nit	d&n	day	nit	d&n
Г	100	HHZ	0	9	8	0	0	- 0	8	- 0	8	8	0	0	0	- 8	0
ı	1	GHz	3	2	3	1	1	1	5	3	4	7	3	5	2	1	1
ì	3	GHz	4	2	_3	1	1	_ 1	6	4	5	8	3	6	2	1	2_
ī	6	GH≢	8	5	6	4	2	3	9	6	7	13	8	10	5	3	4
1	18	GHz	27	21	24	24	17	21	27	25	26	28	22	25	27	22	24
L	20	GHZ	49	44	47	52	41	46	49	53	51	45	38	42	50	45	48

SUPPORT BASED DUCT SURMARY:

	,0,,,,,,														
PARAMETER	YI	EARL	r	3	AN-M	RR	AF	ヤネーノリ	JN	J	じレーSI	EP	C	CT-DS	EC
	day	nıt	din	day	nit	dŁn	day	nit	d£n	day	nit	dŁn	day	nit	dan
Percent occurrence	1	2	1	1	1	1	1	2	2	2	2	2	1	1	1
AVG thickness Kft			.17	l		.19	ĺ		.20	i		. 16	i		. 15
AVG trap freg Ghz			2.4	•		2.7	Ì		1.7	i		2.0	ļ		3.2
AVG lyr and -N/Kft			162	<u>L</u>		137			155			166			190

ELEVATED DUCT SUMMARY:

PARAMETER	Y	EARL'	ſ	J	BN-M	AR	A.	PR-J1	UN	JU	JL-SI	ĔΡ	01	CT-DE	:C
	day	nit	din	day	nit	den	day	nit	dkn	day	nit	dŁn	day	nit	dtn
Percent occurrence	9	0	0	6	- 6	8	9	0	3	8	9	. 8	9	8	- 6
AVG top ht Kft	ĺ		5.1	ĺ		.36	}		10	i		5.3			*
AVG thickness Kft			.17	ļ		. 18			.19	<u> </u>		.15			-
AVG trap freq GHz			2.1	Г		3.2			.91			2.2			*
AVG lyr grd -N/Kft	1		59	1		48	1		74	l		56			*
AVS lyn base Kft	<u> </u>		5.0			.18	<u> </u>		9.5	<u> </u>		5.2			

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT	CCC	URRENCE	Ϋ́	EARL	ľ	J	AN-HI	ar	A I	PR-JI	UH] 31	UL-SI	EP	0	CT-DI	EC
			day	nit	din	dav	nit	dtn	day	nit	_d&n	day	nit	dkn	day	nit	dŁn
0 to	10	Feet	26	29	28	19	32	25	25	22	24	34	36	35	26	28	27
10 to	28	Feet	25	27	26	30	28	29	26	26	26	22	26	24	24	28	26
20 to	38	Feet_	23	_ 23	23	28	24	26	22	28	25	17	17	17	24	23	24
30 to	40	Feet	14	13	14	17	11	14	14	16	15	11	11	11	16	14	15
48 to	50	Feet	5	4	4	3	4	3	5	4	4	5	4	4	6	4	5
50 to	68	Feet	_2	1	2	2	1	1	2	8	1	3	3	3	1	1	1
60 to	70	Feet	1	1	1	1	9	9	1	1	:	1	1	1	1	8	. 6
78 to	88	Feet	8	8	8	1	9	0	9	9	8	1	1	1	6	8	8
88 to	98	Feet	. 9	0	8	8	0	0	8	- 6	0	. 1	6	8	_ு	_ 0	. 0
98 to	199	Feet	0	9	8	8	0	6	9	8	0	0	8	0	0	9	9
above	100	Feet	3	1	2	8	0	9	5	3	4	6	2	4	1	1	1
Hean he	21gh	t Feet	24	28	22	21	18	20	27	24	25	28	28	24	22	28	21

Y	EUST.	Y	J	AN-M	RR	Į fil	P-J(UN	JI	JL-5!	EP	0	CT-D	EC
day	nit	d&n	day	nit	_d&n	day	nit	dln	day	nit	dla	day	nit	dŧn
		9			8			9			9		-	8
		0	1		0	ĺ		Θ			9	•		0
ŧ		320			338	į		314			313			322
l		14			15	1		12	İ		12			14
19	19	19	24	23	24	17	17	17	14	14	14	21	21	21
	day	day nit	day nit dan 0 9 320 14	day nit dan day 0 0 320 14	day nit dan day nit 0 0 320 14	day nit dan day nit dan 0 0 0 0 9 0 320 330 14 15	day nit dan day nit dan day 0 0 9 320 320 330 14 15	day nit dan day nit dan day nit 0 0 0 0 320 330 14 15	day nit dan day nit dan day nit dan day nit dan 0 0 0 0 0 0 330 314 14 15 12	day nit dan day nit day n	day nit dan day nit den	0 0 0 0 0 0 0 0 0 320 330 314 313 14 15 12 12	day nit dtn day nit dtn	day nit dan nit dan day nit day nit d

IPEPS REV 2.1 FISTORICAL PROPAGATION CO 1 ONS SUMMARY

Specified location: 82 30 N 62 19 W (*) INDICATES INSUFFICIENT DATE

Radiosonde source: 74082 82 30 N 62 19 K Radiosonde station height: 220 Feet

Surface obs source: HS229 65 00 N 35 00 W

PEPCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE PADAR ESH CON PANGES:

FREQUENCY	YE	ARL'	ř	Jí	AN-M	RR	A	PR-JI	JH	J	JL-SI	EP	00	T-Di	ĒC
	dav		dan	day	ni t	dan	day	nit	din	day	nit	dan	day	nit	din
168 MHz	e		0	8	0	- 6	8	8	9	e	0	0		8	0
1 GHz	3	2	2	1	1	1	4	2	3	ő	2	4	2	1	1
3 GHz	4_	2	3	2	1	1	5	2	3	7	2	5	2	1	2
6 GHz	6	4	5	2		2	7	5	- 6	11	3	7	5	4	1
10 GHz	24	21	23	18	17	17	19	16	18	28	22	25	29	31	€ 0
20 GHz	1 50	51	51	50	51	51	42	43	42	47	48	48	59	64	€2

SURFACE RASED DUCT SUMMARY:

JON HOL BIIGED DOCK	30	***													
PARAMETER	YE	RRL	Υ	J	AH-M	RR	AI	R-J	UH	J	JL-SI	P	3/	T-DI	EC
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	din	dav	nit	din
Percent occurrence	1	1	1	1	1	1	2	1	2	1	0	1	1	2	2
AVG thickness Kft	[.17	į		. 19	[.13			. 18	ĺ		.18
AYG trap freq GH≥	ļ		2.7			2.1	!		2.8]		2.4			4.4
AVG lyr grd -N/Kft	l		138	Ĺ		155	l		145	L		99	_		155

ELEVATED BUCT CHMMADY.

FFEAUTER BOCA 200000	*1.														
PARAMETER		ARL	-		RH-HI			R-J			JL-S!			CT-D	
	day	nıt	d&n	day	nit	d&n	day	nit	din	day	nit	dtn	day	nit	dan
Percent occurrence	1	2	2	1	8	1	1	3	2	2	3	3	1	1	1
AVG top ht Kft	1		2.4	ĺ		1 5	1		1.6	İ		5.1	l		1.4
AVG thickness Kft			.16	<u></u>		.16	L		. 14	Ĺ	_	.19			.14
AVG trap freq GHz		-	2.2			2.2			3.6			1.4			1.8
RVG lyr grd -N/Kft	Ī		53			55	1		57	i		63	ĺ		78
AVG lyr base Kft	L		2.3	L		1.5			1.5	L		5.8			1.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCEN	IT	OCCI	JRREHCE	Yi	ARL	ŧ .	J	RN-MI	AR	AI	PR-J	UN	J	UL-SI	EP.	00	CT-DI	EC
				day	nit	dan	day	nit	den	day	nit	dŁn	day	nit	<u>ರ೭ಗ</u>	day	nit	dtn
8 t	0	16	Feet	24	22	23	28	28	20	29	27	58	29	25	27	17	16	17
10 t	o	28	Feet	27	27	27	30	38	39	31	38	31	24	27	26	24	20	22
28 t	0	30	Feet	26	30	28	33	34	33	23	28	25	19	26	22	30	33	_32
38 t	c	40	Feet	14	15	14	13	14	13	9	9	9	13	16	15	20	23	21
40 t	0	50	Feet	4	3	3	3	1	2	3	2	2	5	3	4	5	6	5
59 t	c	60	Feet	_ 1	1	1	0	. 0	_ 0	1	. 1	1	2	1	1	2	2	2
60 t	0	70	Feet	1	0	8	8	9	6	1	1	1	1	0	1	8	6	8
70 t	0	88	Feet	9	9	0	9	0	0	9	1	0	1	8	8	. 0	0	0
_ 88 t	0	98	Feet	9	- 0	. 0	8	. 8	8	. 6		_ 6	1	8	9	8	8	9
98 t	0	189	Feet	8	- 8	8	θ	- 0	9	8	0	0	1	8	0	8	0	3
abov	e	186	Feet	3	1	2	1	1	1	3	2	2	5	2	4	1	1	1
Mean	he	ight	Feet	23	21	_22	21	28	20	22	28	21	27	22	24	24	24	24

PARAMETER	YEARLY	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC		
	day nit din	day nit dan	day nit dtn	day nit din	day nit dan		
% occur EL&SB dcts	0	8	8	0	0		
X occur 2+ EL dits	9	9	Ð	9	8		
AVG station N	318	327	313	311	328		
AVG station -H/Kft	13	15	12	12	13 !		
AVG sfc wind Kts_	18 18 18	21 22 22	16 16 16	13 15 14	21 21 21		

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 80 37 N 58 03 E (*) INDICATES INSUFFICIENT DATA Radiosonde station height: 66 Feet Surface obs source: MS252 65 00 N 5 00 E

PERCENT ACCURRENCE OF ENHANCED SUPFACE-TO-SURFACE DADAR/FSH/COM PANCES:

	ERCEM!	OCCURRENCE	UF EI	MARK	CED	<u> </u>	16 E = 1	0-30	<u> </u>	-E F	אחעו	<u> </u>	· ()/1	FRA	<u> </u>			
Г	FREQUENCY		YEARLY			Jf	JAN-MAR			APR-JUN			UL-Si	EP	OCT-DEC			
1		_	day	nit	d&n	day	nit	dan	Cay	nit	dan	day	nit	d&n	day	nit	dŧn	
Г	186	MHz	0	0	0	0	0	8	Ø	0	8	0	8	0	0	0	0	
П	1	GHz	3	2	2	j 1	0	1	5	4	5	4	3	3	2	1	1	
L	3	GHz	3	2	3	1	1	1	6	5	6	5	3	4	_2	1	2	
ŗ	6	GHz	7	4	- 6	2	1	1	9	7	8	9	6	8	8	3	- 6	
1	10	GHz	31	29	36	24	25	24	26	22	24	33	33	33	46	35	38	
;	29	CH=	59	68	59	68	64	62	53	48	59	52	69	58	66	68	67	

SURFACE BASED DUCT SUMMARY:

PARAHETER	Y	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nít	d&n	day	nit	d&n	day	nit	d&r:	day	nit	dŁn	
Percent occurrence	1	1	1	0	1	1	2	0	1	9	1	1	0	1	i	
AYG thickness Kft			. 16			.12			. 13	1		.23			. 15	
AVG trap freq GHz			2.3			4.7			1.5			1.7			1.3	
AVG lyr and -N/Kft			232	<u> </u>		353	<u> </u>		193	<u> </u>		282	L		99	

ELEVATED BUCT SUMMARY:

PARAMETER	YEARLY			JAN-HAR			APR-JUN			JI	JL-SI	EP -	OCT-DEC		
	day	nit	₫&n	day	ni:	d&n	day	nit	d&n	day	กit	d&n	day	nit	din
Percent occurrence	8	9	0	9	9	- 0	0	0	9	9	9	0	0	0	0
AVG top ht Kft			. 46	l		*	1		*			.46	l		*
RVG thickness Kft			.40	L		*	l		#			.48	<u> </u>		*
AVG trap freq GHz			.21		-	*	i		*			.21			*
AVG lur grd -N/Kft	l		167	1		*	ļ.		*	•		167	l		*
AVG lyr base Kft			.36	Į		*			*	i		.36	l		+

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCUR	RENCE	YEARLY			JF	JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
		day	nit	d&n	day	nit	din	day	nit	d&n	day	nit	d&n	day	nit	dan	
0 to 10 F	eet	15	15	15	18	9	10	19	22	21	19	17	18	13	11	12	
10 to 20 F	eet	26	25	26	29	28	28	29	31	38	24	23	23	21	26	28	
20 to 30 F	eet	29	31	30	36	39	38	28	26	27	24	26	25	27	33	30	
30 to 40 F	eet	18	20	19	18	21	20	14	13	13	17	28	19	22	25	24	
40 to 50 F	eet	6	5	5	4	3	3	3	2	2	7	?	7	10	7	9	
58 to 60 F	eet	5	1	2	_ 1	8	1	_ 1	1	1	3	2	3	4	2	3	
60 to 70 F	eet	1	8	1	9	9	8	1	1	1	1	1	1	1	8	1	
76 to 88 F	eet	1	0	9	0	9	8	1	1	1	1	8	8	1	8	8	
88 to 98 F	eet_	8	0	8	_ 8	Ð	9	_ 1	8	0	_ 8	Ð	0	6	8	8	
98 to 180 F	eet	0	0	0	0	0	Ð	-6	1	1	0	0	9	8	9	9	
above 109 F	eet	3	2	2	1	8	θ	4	4	4	4	2	3	2	0	1	
Hean neight	Feet	27	25	26	23	23	23	27	25	26	39	27	28	29	25	27	

YEARLY			JAN-MAR			l Ai	アーチリ	หเ	JUL-SEP			OCT-DEC		
day	nit	d£n	day	nis	din	day	nit	d&n	day	กาเ	dŧn	day	nıt	dŁn
		8			0			0			0			8
ł		9			8	1		0			θ	l		8
ĺ		316			318	!		314	l		315	i		317
•		12			13	l		12	ŀ		12			12
18	17	18	28	20	20	15	14	14	15	15	15	21	21	21
	day	day nit	day nit dan 0 0 316 12	day nit din day 0 0 316 12	day nit dan day nit 0 0 0 316 12	day nit dan day nit dan 0 0 9 9 316 318 12 13	day nit din day nit din day 0	day nit dan day nit dan day nit 0	day nit dan day nit dan day nit dan 0	day nit dan day nit dan day nit day 0	day nit dan day nit day nit	day nit din day nit din day nit din day nit din 0	day nit den day	day nit dan day nit day nit